

GREENWASTE/ZANKER

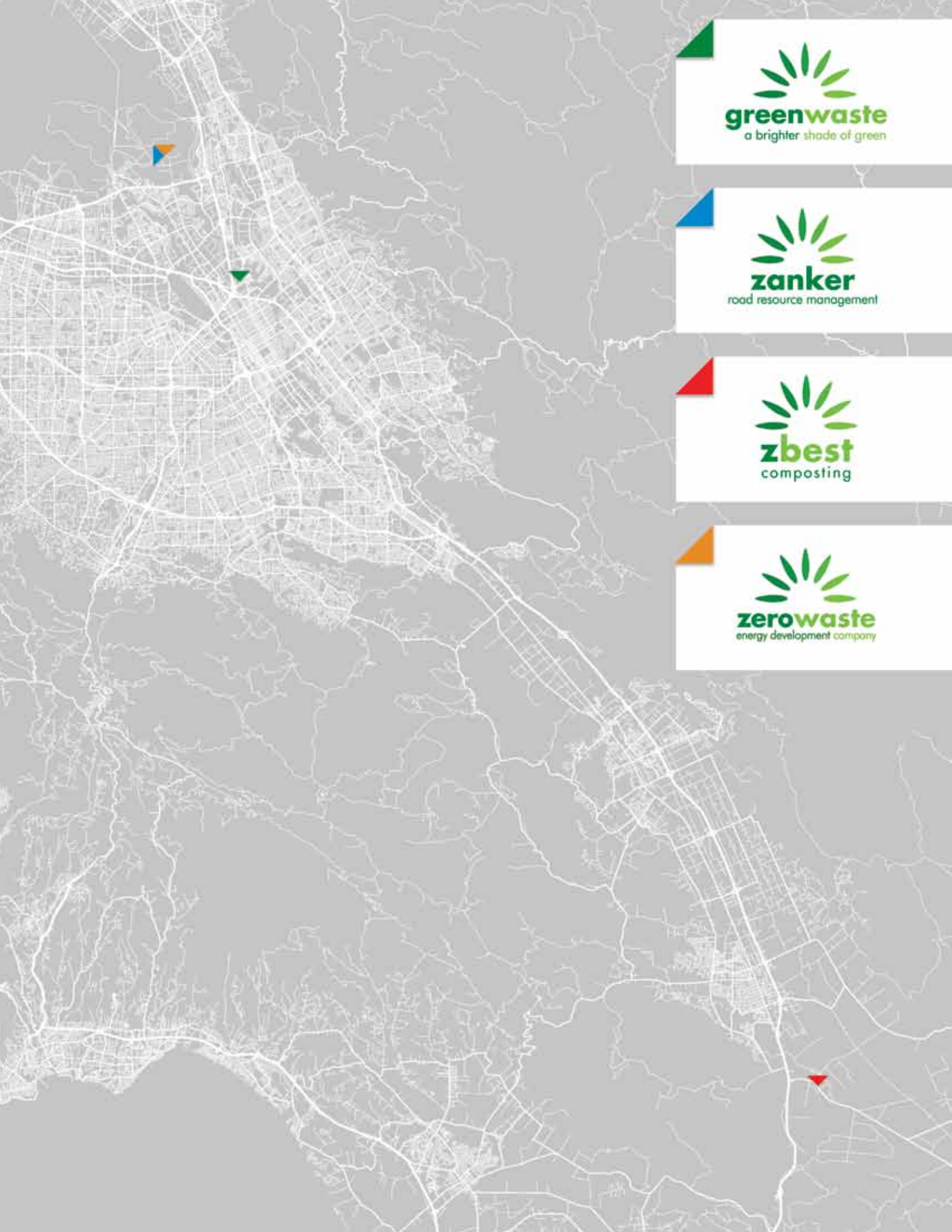
sustainability report

reconstructing
reconsidering
redeeming
rethinking

reinventing the industry while **reshaping** the community



rewarding
reclaiming
rejuvenating
refreshing



greenwaste
a brighter shade of green



zanker
road resource management



zbest
composting



zerowaste
energy development company

Dear Reader,

On behalf of the owners and employees of our family of companies, I am pleased to present the Sustainability Report for GreenWaste Recovery, Inc. and Zanker Road Resource Management, Ltd. Since our inception almost 30 years ago, we have continued to challenge what is considered the “industry standard” and are proud of our ability to reshape what is expected from waste haulers and recyclers. We have always placed value in the materials that we handle. The materials that pass through our facilities have monetary, social and/or environmental value; to destine these resources to a landfill is a failure on our part to maximize this value. Our mission is simple and extends beyond recycling: as responsible businesses we realize our employees are our greatest assets, we owe it to our communities to leave only positive imprints as we conduct our business and we commit to our children to demonstrate the value of limited resources and impart in them the knowledge to continue our legacy of sustainability.

We are proud of our companies and all we have accomplished to date, and feel inspired as we look forward to developing innovative ways to better manage our waste, becoming even more involved in the communities where we live and work. By continually pushing the boundaries of traditional technology and reinventing our communities’ expectations of waste collectors and processors, we remain ahead of our competition in achieving recycling rates that are unmatched in our industry. Our companies strive to maximize diversion from landfills, minimize the carbon footprint of our operations and service our communities with safety and customer satisfaction at the forefront of our minds.

We believe this report is a testament to our vision, describing how far we have come and outlining our commitment to continue advancing our companies’ mantras to be a “brighter shade of green” and to “rethink, reinvent, renew.” Through this reporting process we have identified many successes, especially surrounding our exemplary facilities and commitment to keeping our employees engaged in our operations. Our Sustainability Team has worked hard to identify goals and targets, which we will continually track and publicly report as we strive to innovate, demonstrate and lead by example, pushing the limits of traditional standards in our industry. The goals and targets outlined in this report will remain on the forefront of all our companies’ business decisions as we continue assisting the communities we serve to achieve zero waste.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Richard Cristina', with a long, sweeping underline.

Richard Cristina
President & Founder

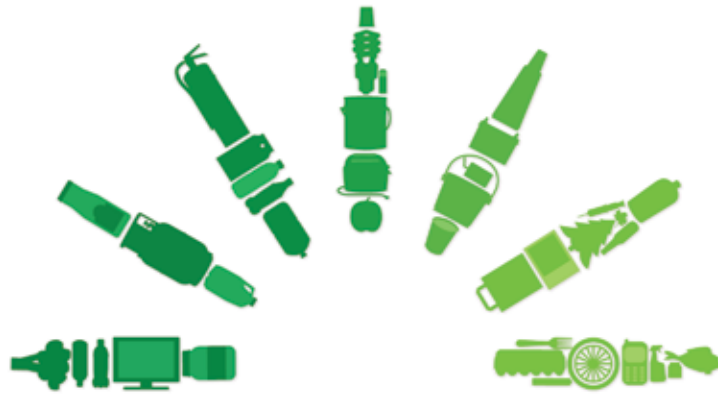


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our
vision



GreenWaste and Zanker push the boundaries of recycling and waste diversion through innovation and technological advancement. We seek solutions to the everyday challenges of managing discards by using our experience and willingness to take risks to develop and provide new solutions for our public and private partners.

This vision was created and has been realized since our inception. By striving to develop a truly “integrated” system of companies and facilities to manage waste, we envisioned, created and developed a family of companies that have been widely recognized as “state-of-the-art” collection and processing operations. Our goal is to responsibly conduct business with an awareness of how we impact our natural and social environments and to develop solutions to new challenges as they emerge. As our companies expand, we continually evaluate our operations to identify opportunities to maximize beneficial impacts and work to provide an overwhelmingly positive imprint in everything we do.



GreenWaste/Zanker would like to specifically recognize Mr. Jesse Weigel, one of the founding members of our companies, by dedicating our Sustainability Report to his memory. Jesse was instrumental in creating our vision and providing our team with the tools to turn that vision into reality. Jesse consistently worked to develop and foster a culture of innovation, passion and creativity. His success is measured by the strength and capabilities of the employees that comprise our team...a team that seeks challenges and “gets creative” to find the best solutions for both our company and our environment.

We thank Jesse for instilling in the next generation the ideals he held so high. We commit to ensuring his legacy continues to thrive, with our successes a reflection of his values, as we simultaneously cultivate future industry leaders.

our
goals



MATERIAL PROCESSING OPERATIONS

- M.01 Achieve operational efficiency of 0.07 metric tons of CO₂e emitted per ton processed by 2015.
- M.02 Manage over 1,200,000 tons of material annually by 2015.
- M.03 Strive for zero waste at all our facilities.
- M.04 Receive zero Local Enforcement Agency violations at all our facilities.
- M.05 Implement a carpet collection and recycling program for our communities.

GREEN BUILDING AND ENERGY

- G.01 Expand lighting retrofits throughout all our facilities.
- G.02 Conduct a feasibility study for a CNG fueling station at one (or more) of our facilities.
- G.03 Exceed air quality compliance standards for our fleet.
- G.04 Certify all our facilities as Green Businesses by 2015.
- G.05 Implement a semi-annual auditing plan for our green office program.
- G.06 Track and maximize water efficiency at all our processing facilities.
- G.07 Transition all non-collection company vehicles into hybrid/alternative fueled.
- G.08 Replace 30% of diesel powered equipment with cleaner energy options.
- G.09 Strive to decrease sub haulers' GHG emissions by 50%.
- G.10 Reduce employee vehicle trips by 25% by encouraging carpooling, busing and biking to work.
- G.11 Utilize electrical power from clean, renewable sources to the extent possible.
- G.12 Achieve 100% compliance with our Environmentally Preferable Purchasing Policy (EPPP).
- G.13 Obtain LEED Gold™ on all new qualified construction projects.

EMPLOYEE SAFETY AND WORK ENVIRONMENT

- E.01 Strive for zero lost time work place injuries.
- E.02 Incorporate charitable activities into employee engagement and appreciation programs.
- E.03 Incorporate environmentally sustainable activities into employee appreciation programs.
- E.04 Maintain industry leading health and safety policies for on the job safety.
- E.05 Expand employee equipment and vehicle training, cross-training and certification programs.
- E.06 Encourage upward mobility for high potential employees.
- E.07 Have 100% of the management team serve on community boards and/or commissions.

GreenWaste Recovery, Inc. and Zanker Road Resource Management, Ltd. are family owned and operated companies with common ownership and have been widely recognized as industry pioneers, consistently providing fresh and innovative approaches to recycling and landfill diversion. We have provided collection and processing services for solid waste, recyclables and compostables since 1991 and 1985 respectively, and continue to develop, utilize and rework our processing systems to improve performance and productivity.



GreenWaste Recovery, Inc.

GreenWaste has provided yard trimmings collection and processing services since its inception in 1991 and has expanded to collect and process residential and commercial garbage, recyclable materials and compostables. We began as one of three yard trimmings collection contractors in the City of San José and have become San José's only yard trimmings collection contractor. GreenWaste is also the current hauler and material processor for the County of Santa Cruz, the towns of Portola Valley, Woodside and Los Altos Hills, cities of Capitola, Scotts Valley and Palo Alto, the southern and western portions of Santa Clara County and Burbank Sanitary District. GreenWaste began resource recovery operations in the City of San José in 1993 and in 1999 built our first Material Recovery Facility (MRF) designed to process recyclable materials, yard trimmings and construction and demolition debris (C&D). In 2008, we completed construction of a new state-of-the-art MRF and transfer station, expanding our processing line for recyclable materials and incorporating a new processing line for Municipal Solid Waste (MSW). The GreenWaste MRF is currently achieving recycling rates of up to 98% on the recyclable materials processing line and up to 72% on the MSW processing line.



Zanker Road Resource Management, Ltd.

Zanker has changed the way C&D debris is processed, and increased organics recovery by developing cutting-edge processing systems and expanding markets for recycled hardscape and landscape products and cogeneration fuels. Zanker owns and operates two C&D recycling facilities, two landfills, two MRFs, two yard trimmings composting facilities and one MSW/food waste composting facility.

Zanker's focus on C&D recycling began in 1985 with the permitting and construction of an outdoor material recovery operation on a portion of the Nine Par Landfill in San José. With an estimated five years of waste disposal capacity remaining, Zanker implemented extensive waste recovery and recycling programs focusing on the recovery of wood waste, yard trimmings, C&D materials and inert materials. With waste diversion of up to 96%, the landfill is still in operation 26 years later and recycling operations continue to expand. In 1999, Zanker expanded its recycling and recovery operations, opening another outdoor material recovery operation in San José to increase C&D processing capacity and offer mixed waste processing services. With an upgrade to the processing line in 2011, the current waste diversion rates are 87% and continue to increase.

Zanker further expanded its organics processing services in 1997, opening Z-Best Composting Facility in Gilroy, one of the largest composting facilities in Northern California. Z-Best began by providing clean yard trimmings open-windrow composting services. In 2002, we expanded our organics processing services to include MSW/food waste in-vessel composting. With a goal of expanding the geographic service area without increasing our carbon footprint, Zanker entered into a long-term agreement in 2007 to permit and operate a recycling and recovery operation at the former Florin Perkins Landfill in Sacramento. Zanker permitted the facility, revitalized the site, constructed a new sort-line and currently recycles more than 70% of all C&D processed.

our history

1985

ZANKER ROAD RESOURCE MANAGEMENT LTD. (Zanker) is formed
ZANKER Road Resource Recovery Operation and Landfill (ZRRROL) is opened



1986

ZANKER designs and constructs the **1st** known Demolition Flotation System in the U.S.

1988

ZRRROL is awarded **Composting Facility of the Year** from the California Resource Recycling Association

1989

ZANKER designs and constructs the **1st** Concrete Recycling Facility in California
ZANKER designs and constructs the **1st** Automated Demolition Recycling Operation in the U.S.
AB 939 is implemented in California

1991

GREENWASTE RECOVERY INC. (GreenWaste) is formed



1997

Z-BEST COMPOSTING FACILITY (Z-Best) is opened



1999

ZANKER MATERIAL PROCESSING FACILITY (ZMPF) is opened

- 2000**
 ZANKER is awarded **Environmental Enterprise of the Year** from Acterra
 ZRRROL is awarded **C&D Operation of the Year** from CA Resource Recycling Association
- 2001**
 GREENWASTE/ZANKER begins operating the Sunnyvale SMaRT Station MRF + Transfer Station
- 2005**
 ZMPF is awarded **C&D Recycling Facility of the Year** from
 Construction Materials Recycling Association
- 2006**
 Z-BEST is awarded **Innovative Organics Program** from the
 California Resource Recovery Association
- 2007**
 ZANKER begins operation of Florin-Perkins Public Disposal Site in Sacramento
 ZANKER installs new C&D Sorting System at Zanker Material Processing Facility

2008
GREENWASTE Material Recovery Facility (MRF) is constructed



2009
GREENWASTE of Palo Alto is launched ————— 

2010
 GREENWASTE/ZANKER receive recognition from **The CLIMATE REGISTRY**

2011
 GREENWASTE MRF receives an **Environmental Business Award** from Acterra for
 Environmental Enterprise
 GREENWASTE + GREENWASTE of PALO ALTO offices become Green Business Certified
ZERO WASTE ENERGY DEVELOPMENT COMPANY is launched

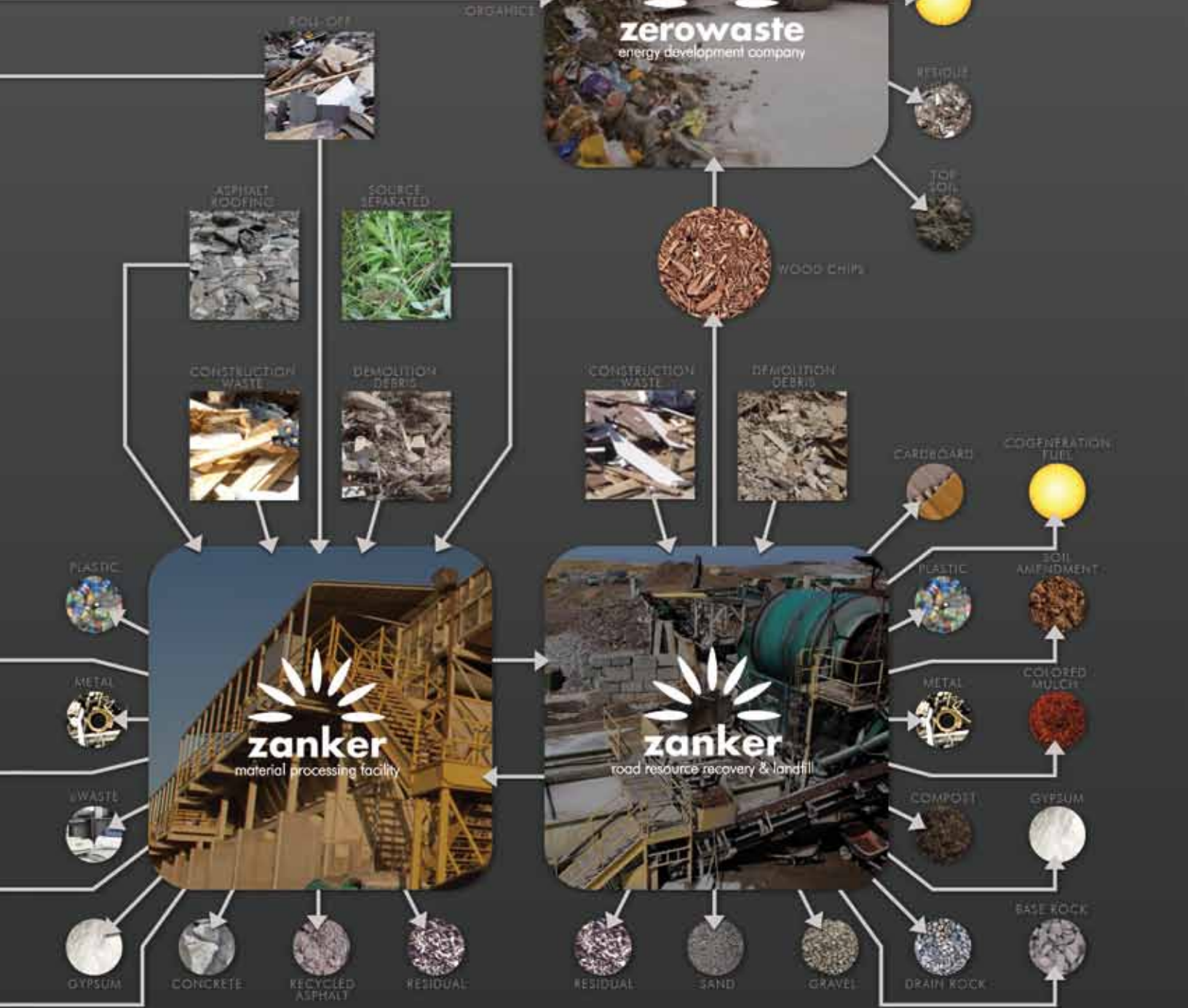
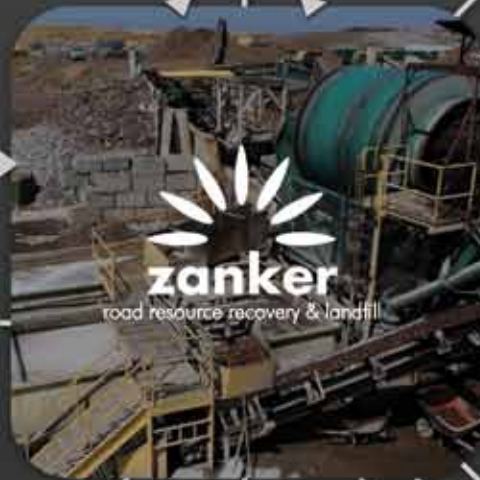


2012
GREENWASTE of Sacramento begins debris box collection services ————— 

family



ORGANICS





our
technology



The technologies developed and deployed at each of our individual facilities are just some of the unique aspects of our companies. Combined, our facilities provide recycling and material management solutions to all types of waste, including, but not limited to, residential curbside and commercial waste, single and mixed stream recyclables, yard trimmings, compostables and construction and demolition debris (C&D). Our unique collection and processing systems ensure materials are processed and recovered efficiently, and provide some of the highest recycling rates throughout the United States.

- ▲ Our “Rocket” at Zanker Material Processing Facility (ZMPF) recycles C&D at a speed of 135 tons per hour with a 95% recycling rate.
- ▲ The installation of our 240-foot long C&D debris sortline system at ZMPF is capable of sorting 40-50 tons per hour and has dramatically increased our facility’s recycling rate and reduced the production of trash/residual by 15%.
- ▲ Our GreenWaste Material Recovery Facility is the first facility in the nation to significantly raise the bar in material processing by utilizing two side-by-side processing lines that sort both mixed solid waste and single-stream recyclables.
- ▲ Our 157-acre composting facility at Z-Best is permitted for an average of 1,500 tons per day of yard trimmings and food waste. It is one of the only facilities in Northern California that uses Covered Aerated Static Piles to compost MSW/food waste. This has led to uniquely high recycling rates from difficult to recover sources like Multi-Family Dwellings.

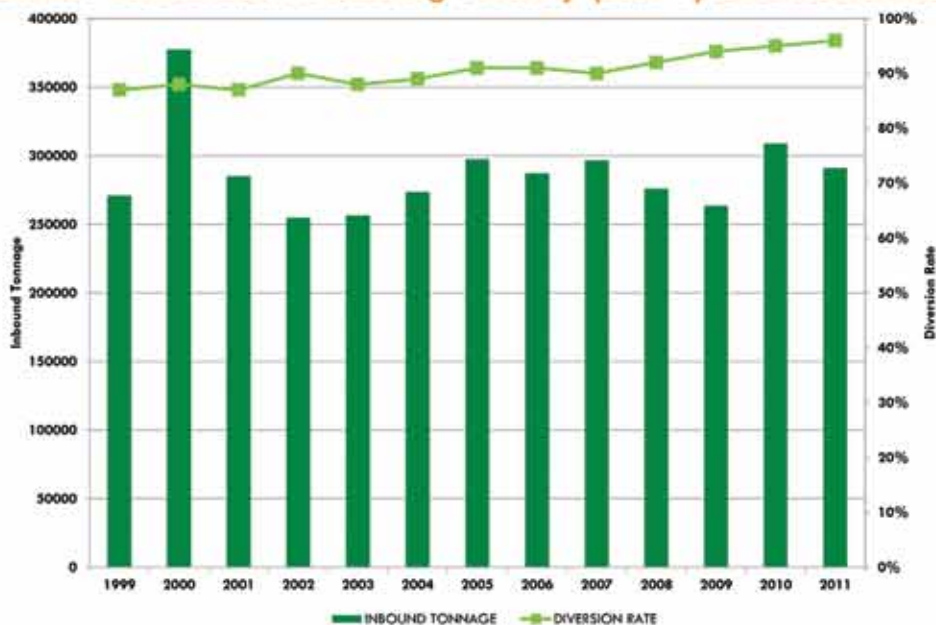


ZANKER'S CONSTRUCTION & DEMOLITION DEBRIS "ROCKET"

The Zanker core management team recognized that as landfill space was becoming scarce, there was a growing opportunity to recover valuable materials from the mixed construction and demolition debris (C&D) waste stream. Our Zanker team envisioned a solution and engaged the services of Krause Manufacturing to engineer a revolutionary C&D recycling operation at Zanker Material Processing Facility (ZMPF). "The Rocket," as it is nicknamed due to its exterior shape, has the capability of processing 135 tons per hour with a 95% diversion rate. This equates to 95% of a 1,600 square foot home being recycled in approximately 35 minutes.

The Rocket's effectiveness in processing mixed loads of C&D debris is made possible by its unique water "float tank" and screening system that separates the mixed debris into "sinkables" (soil, glass, mixed concrete, pipe, metal, rock, etc.) and "floatables" (wood, paper, plastic, etc.). This process was pioneered and perfected by the Zanker Management Team under the leadership of Jesse Weigel. Below is a table that illustrates Zanker's inbound tonnage and associated diversion rate by year.

Zanker Material Processing Facility (ZMPF) Diversion Data



The infeed conveyor transports the mixed materials past a magnet that removes ferrous metals and then through a stationary trommel screen to remove the smaller materials. The smaller material then drops onto a conveyor and proceeds to the General Kinematics De-stoner where it passes over a vibrating screen to further sort the smaller material into "fines". The fines then drop onto a conveyor and are stockpiled until used as cover or clean fill for both onsite and off-site construction projects. The larger materials or "overs" from the stationary trommel then pass through the General Kinematics De-stoner and the lighter materials (wood) are airlifted out of the Rocket while the heavier materials (concrete, rock and asphalt) drop onto another conveyor where they continue on for further processing.

From the trommel, the 8" minus or "unders" and the heavier material from the Residual Screening System are combined and are conveyed to the water separation process. Approximately 2,500 gallons per minute of reclaimed water flows into the Rocket while it rotates slowly (approximately 4 revolutions per minute) to ensure all materials come in direct contact with the water. Floatables are forced out of the end of the Rocket by the steady flow of waste and water and are then deposited onto a conveyor that feeds the main sorting conveyor. The "sinkables" (metal, concrete, brick, etc.) drop to the bottom of the Rocket and are deposited onto a conveyor belt where metals (ferrous and non-ferrous) are removed. The smaller brick, stone and concrete are allowed to drop off the end of the conveyor into a stockpile and are utilized for on-site construction. The water exiting the Rocket is captured, filtered and then re-used in the system.

From the trommel, the 8" overs are dropped onto the main sorting line along with the wood from the General Kinematics De-stoner. The materials are then conveyed underneath an overhead belt magnet that removes ferrous metal. Concrete is removed by laborers on the sortline and placed into a bunker for recycling. Non-recoverable wastes are also removed manually and placed into a bunker for disposal. The only remaining material left on the conveyor after manual sorting is clean wood waste. The wood waste is conveyed to a stacking conveyor where it is stockpiled and processed by wood grinding equipment into soil amendments, mulch and cogeneration fuel.

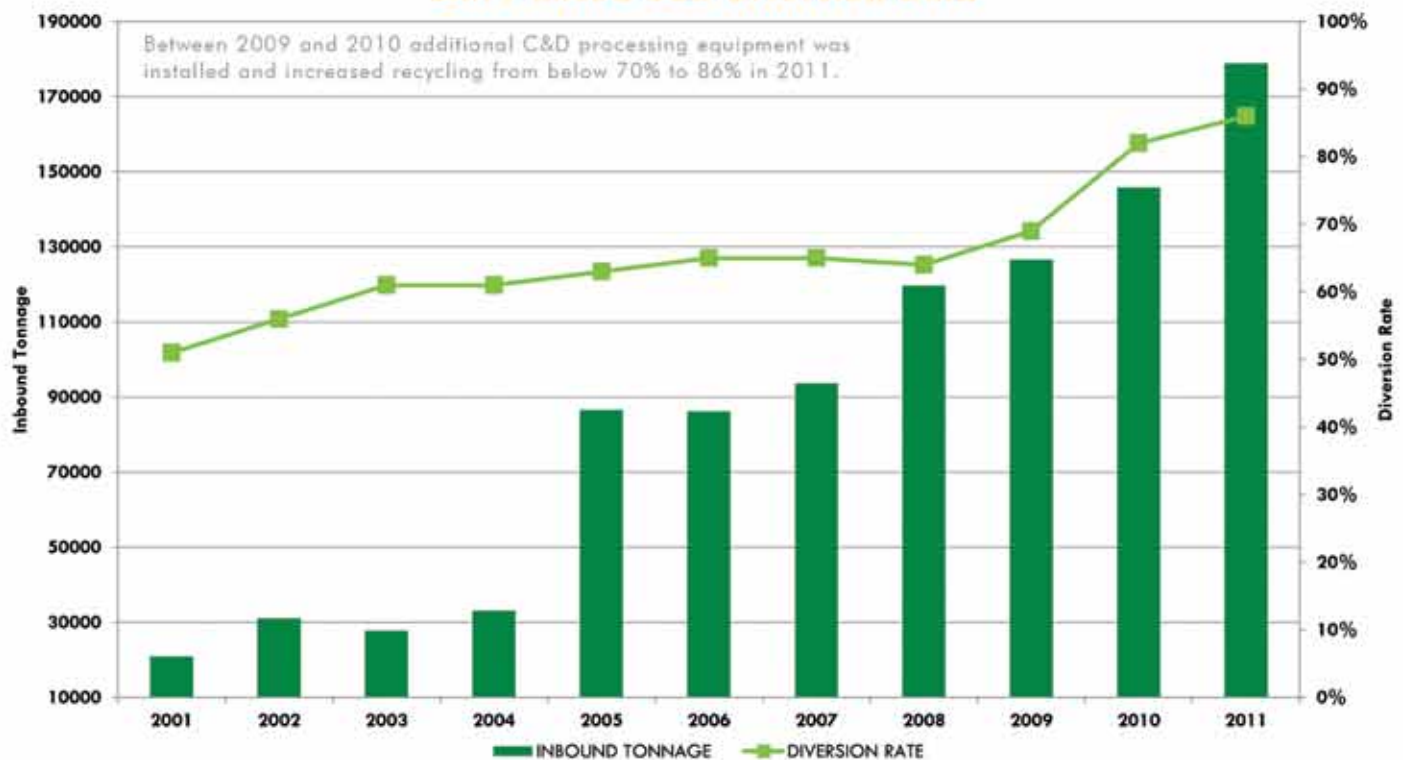




ZANKER'S MIXED CONSTRUCTION & DEMOLITION DEBRIS SORTLINE

When we constructed the elevated mixed construction and demolition debris (C&D) sortline in 2008, it was simply a conveyor belt with sorting stations above bunkers with one screen to remove fines. The system dramatically improved processing operations and safety, as sorters were no longer ground-sorting near vehicles and trucks. We also noticed an immediate increase in the recovery of different types of materials that were difficult to recover with ground sorting. With our desire to increase diversion, we made numerous adaptations and modifications and installed additional mechanical sorting and automated processing equipment in 2011. Zanker ownership and management, in conjunction with equipment manufacturer, Bulk Handling Systems (BHS), designed our 240-foot long C&D sortline system addition, which is capable of sorting 40-50 tons per hour and recovers more than 80% of the mixed C&D as shown in the table below.

ZMPF Mixed C&D Diversion Data



After the mixed C&D debris is unloaded in the tipping area, wheeled loaders move the materials to a stockpile and excavators are used to remove large non-recyclable materials while another excavator loads the infeed conveyor. The infeed conveyor deposits the mixed debris on the vibratory finger screen which separates materials smaller than 8" (8" minus). These 8" minus materials pass under a belt magnet that removes ferrous metals before traveling to a debris roll screen located near the sorting platform. Metals are placed into a container and shipped to a metals recycler.

Materials larger than 8" or "overs" are conveyed to the original sort line. These overs are evenly distributed across the primary sorting conveyor and pass a series of "work stations" where employees recover the larger items such as cardboard, wood, metal and trash. Remaining materials cascade off the end of the primary sorting conveyor and fall onto a secondary sorting conveyor where additional employees separate and remove smaller recyclable items. The remaining materials that aren't pulled off of the sortline is considered garbage and sent to the landfill for disposal.

The debris roll screen removes materials smaller than 2", or "unders," and allows other materials to continue on for further processing. The unders from the debris roll screen are then processed through the trommel to separate the 3/8" minus soil, which is then blended with Z-Best organic compost and other soil amendments to produce a topsoil product for use on landscape projects. "Overs" from the trommel screen are directed through a Nihot air separation unit that removes lighter weight materials from the heavier concrete and inert debris. The inert debris is processed into a base rock product while the lightweight material is used as ADC.

Medium size materials (2" to 8") from the debris roll screen continue on to the Nihot Drum Separator, which utilizes a vacuum to separate the "heavies" (concrete, brick, and rock) from the less dense "lights" (mixed paper, OCC, film plastics, beverage containers, etc.) and "mid-fraction" (wood, sheetrock, rubber, beverage containers, OCC, and plastic items) materials. Remaining materials from the mid-fraction conveyor belt enter the NRT Spydor optical sorter where remaining wood wastes are optically sorted and dropped in a bunker below.

Our Opinions on Alternative Daily Cover

As an environmentally responsible and sustainable company, we strive for "highest and best use" solutions for recycled materials and organics, preferring to market materials domestically in order to reduce the carbon footprint of shipping commodities internationally. Our "highest and best use" philosophy applies to the overuse of Alternative Daily Cover (ADC). We have been diligently trying to raise the standards for recycling by eliminating ADC as counting towards diversion credit in California and have sponsored several bills to eliminate the credit.

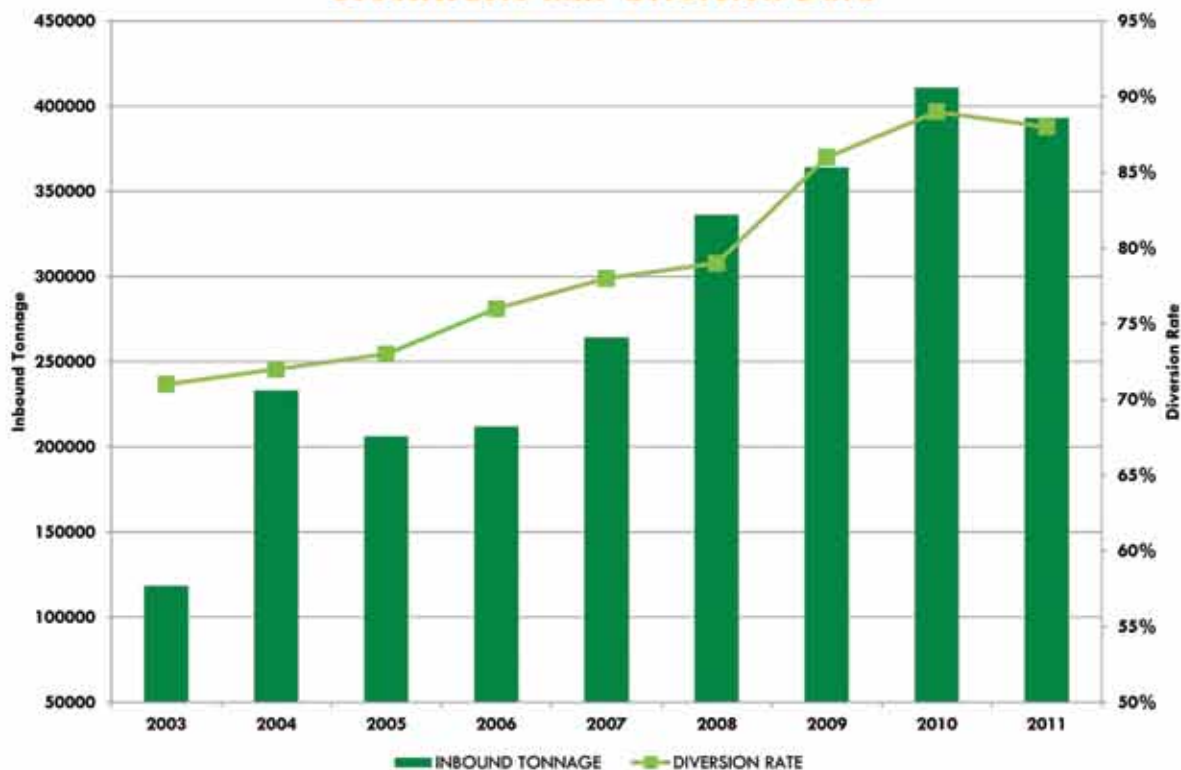




GREENWASTE MATERIAL RECOVERY FACILITY

The GreenWaste Material Recovery Facility (MRF) has significantly raised the bar in material processing by designing and installing side-by-side processing lines that sort both municipal solid waste (MSW) and single-stream recyclables under the same roof. This arrangement takes advantage of both the unique and similar aspects of the two waste streams, merging clean product from both lines to maximize efficiency and increase the quantity and quality of materials recovered. This side-by-side design results in economies of scale and allows the MRF to take a more comprehensive and cost-effective approach to process all incoming material, not just those materials that are already source separated and easy to recover. Processing at the facility begins manually, becomes mechanical and then goes back to a manual process for final quality control. The following chart depicts diversion rates and tonnage data for the entire MRF (2003 - 2011).

GreenWaste MRF Diversion Data



The mechanical sorting equipment and processes include: conveyors, screens, separators, magnets, optical sorters, bag breakers and an eddy current separator. The bulk of the materials sorted at the MRF come from San José's Multi-Family Dwelling (MFD) complexes and other areas serviced by GreenWaste.

- ▲ **Single-Stream Processing** | The single-stream recycling line is capable of processing up to 25 tons per hour of recyclable materials and includes pre-sort stations, a cardboard screen, newsprint and polishing screens and quality control post-sort stations. Separated commodities are stored in bunkers before being baled.
- ▲ **MSW Processing** | The MSW processing line is capable of processing up to 30 tons per hour of materials and involves pre-sort stations, a bag breaker, a trommel screen, a drum separator, a polishing screen and quality control post-sort stations. To maximize the recovery of materials and increase operational efficiencies, mixed recyclables are removed from the MSW line during the pre-sort and transferred to the pre-sort conveyor of the single-stream processing line to be processed as recyclable materials. Separated commodities are stored in bunkers before being baled while the organic fraction of processed MSW is conveyed to a separate bunker and transported to Z-Best for composting.
- ▲ **Combined Single-Stream & MSW Processing** | The combined single-stream/MSW processing line is designed to optimize the processing of containers removed by the polishing screens and includes 2 optical sorters, an electromagnetic separator, an eddy current separator and sort stations to separate PET (e.g. water bottles), plastic containers #2 through #7, HDPE color and natural (e.g. detergent bottles, milk jugs) and ferrous and non-ferrous metals.

Our ownership and management team, in conjunction with equipment manufacturer Bulk Handling Systems (BHS), were responsible for the design of the processing equipment to accommodate the local feedstock composition. Numerous mechanical sorting mechanisms and processes have been evaluated, adapted and modified to increase diversion, decrease cross-contamination and improve the overall quality of recovered commodities. To maintain optimal results, we continually track and evaluate the quality, quantity and composition of the incoming materials and the equipment is regularly calibrated to consistently achieve higher diversion rates. To prevent repetitive stress injuries and maximize processing efficiencies, our employees are moved around to different sorting stations and tasks on an as-needed basis.

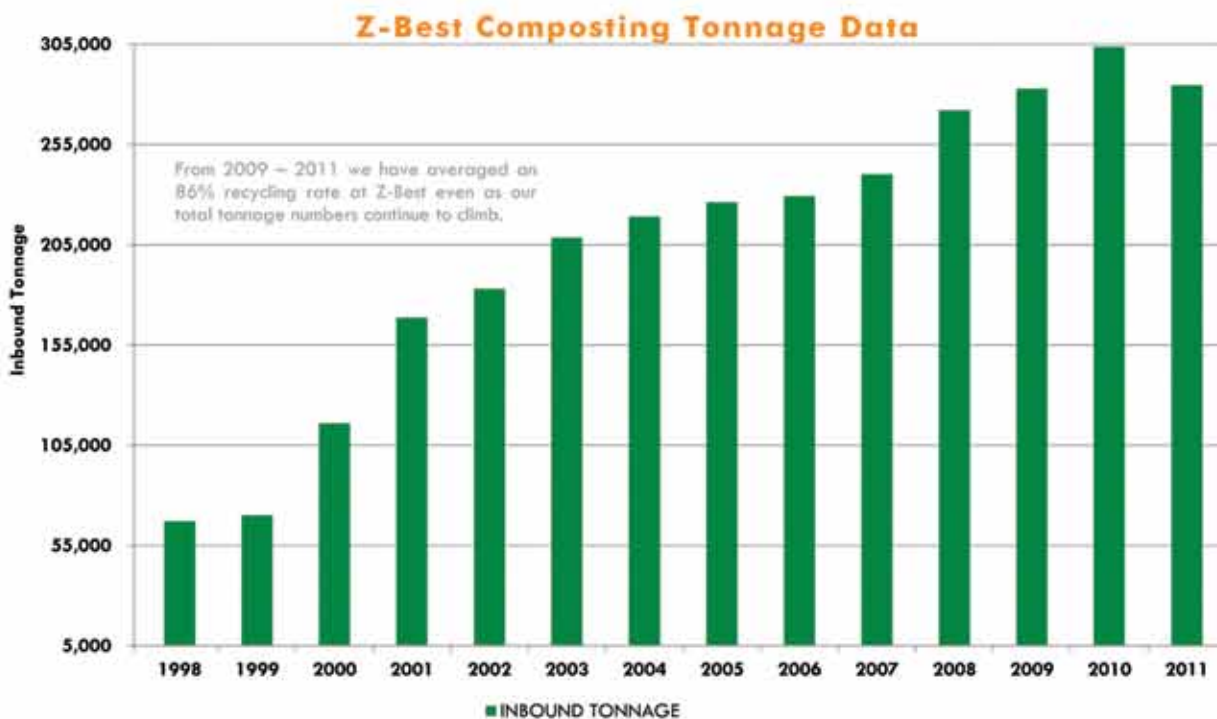
From 2009 to 2010, the MSW processing line diversion rate increased from 70% to 72% and the single-stream processing line diversion rate increased from 95% to 98%. These rates are unmatched in the industry and we intend to continue making improvements with the goal of achieving zero waste.





Z-BEST YARD TRIMMINGS & MSW/FOOD WASTE COMPOSTING

At 157-acres, Z-Best is one of the largest composting facilities in California. Originally permitted in 1997, Z-Best expanded its operations in 2002 to include MSW/food waste and increased capacity to accept up to 1,500 tons per day of yard trimmings, inclusive of up to 700 tons per day MSW/food waste (with additional capacity for 2,500 tons per day for 15 days per year). Traditional composting programs focus on open windrow yard trimmings composting, which is easily recoverable, has less contamination and has mature end-use markets. In 2002, we took overall organics diversion to the next level by incorporating a MSW/food waste composting program. By integrating the processing at the GreenWaste MRF with the expanded infrastructure at Z-Best, we found solutions to the challenging task of managing the organic fraction of MSW/food waste. Z-Best is currently diverting 600-700 tons per day of clean yard trimmings and 250-300 tons per day of MSW/food waste that would have otherwise been landfilled. The following chart shows the tonnages of yard trimmings and MSW/food waste composted at Z-Best since 1998.



Using a Covered Aerated Static Pile (CASP) system allows us to process MSW/food waste and create a compost product perfectly suited for landscape applications. After the MSW/food waste has been sorted at the MRF to remove non-organic and recyclable materials, the compostable materials are inserted into a 350-foot long plastic bag that houses a forced aeration system called the CTI System. Perforated PVC pipes are introduced into the bag and used to aerate the compostable materials. Retention time in the bags is about 3 months during which the organic material is naturally composted through microbial digestion. During the composting process, the bagged material reaches 140-160 degrees, which is sufficient to kill all insects, pathogens and seeds. Once the composting process is complete, the material is sent through a primary screening process, which removes the larger inorganic fractions (1" or greater) and this residual material is shipped to a nearby landfill for disposal. Composted materials smaller than 1" are placed in curing piles and after a suitable curing period of several more weeks, final screening takes place and the resulting compost is ready for market.

In 1991, our management was involved in the development of GreenTeam of San José, which was challenged by the City of San José to drastically increase recycling rates of materials collected from the local community. In 2002, the City of San José required we increase recycling rates to 35% for all Multi-Family Dwelling (MFD) complexes; a notoriously difficult material stream due to high levels of contamination in the recyclables containers. Faced with the difficulty of instituting behavioral change, we approached this recycling challenge by searching out innovative and creative solutions within the collection and processing side of operations. We ultimately achieved these aggressive recycling goals by implementing new composting technology at Z-Best in the late 1990's and have since continued to increase our recycling rates.

The key to our success has been integrating yard trimmings and food waste composting at one facility and ensuring all materials received at Z-Best are composted and only inorganic contaminants are sent to a landfill for disposal. Through our "highest and best use" philosophy, Z-Best's compost is always integrated back into soils to help sustain California's agriculture and landscape markets and is never used at landfills for Alternative Daily Cover (ADC). Z-Best is a recognized member of the U.S. Composting Council (USCC), Organic Materials Review Institute (OMRI), and the California Compost Coalition (CCC).



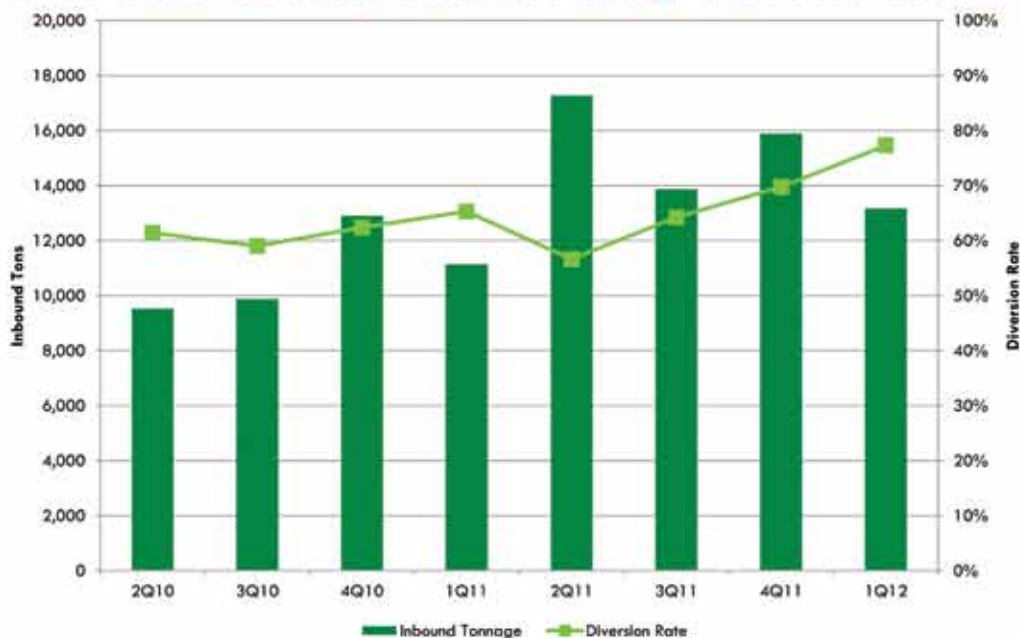


FLORIN PERKINS LANDFILL AND GREENWASTE OF SACRAMENTO

In late 2006, Zanker began expanding into the Sacramento area with the signing of a long-term lease at the former Florin Perkins Landfill. In preparation of developing a new recycling and recovery operation, Zanker undertook a major clean-up of the site, acquiring the permits to open a new processing and transfer facility. Zanker's primary goal was to incorporate our many years of material processing and recycling experience into this new facility to expand our services into this new region.

This historically neglected landfill site required an extensive clean-up effort to bring it back into compliance with local and state regulations. The previous operator had vacated the property with several regulatory violations and citations. Over 74,000 tons of illegally stockpiled and buried waste was removed from the site and disposed of properly by Zanker. We worked with regulators to implement processes to reuse and recycle as much of the waste materials as possible. Clean-up took nearly 2 years and Zanker was able to recycle and reuse 65% (by weight) of these materials.

Florin Perkins Quarterly Inbound Tonnage and Diversion Rates



Due to the controversial history of the site, the permitting process underwent strict scrutiny from regulators and the public during Zanker's re-permitting efforts. The permitting process resulted in a Solid Waste Facility Permit (SWFP), which allowed for the processing and transfer of up to 500 tons per day of residential, commercial and industrial construction and demolition debris (C&D). Florin Perkins specializes in the processing of C&D debris and, with the utilization of a custom built C&D sortline constructed in 2011, we currently recycle more than 70% of all waste delivered to the site.

Zanker is currently in the process of further expanding its operations in Sacramento to incorporate additional mechanized sorting processes, which would allow the facility to achieve even higher recycling rates. In support of this effort, GreenWaste of Sacramento was formed in early 2012 and began providing debris box collection and processing services to residential and commercial customers in the Sacramento area. Our future plans in the Sacramento area include assisting the local jurisdictions to compliance with future recycling ordinances and exploring future composting and Anaerobic Digestion project opportunities.



our
impacts





Our contribution to the advancement and development of new technological and mechanical equipment has enabled us to achieve some of the highest landfill diversion rates in the nation. With the State of California having set a policy goal of 75% landfill diversion by 2020 and less than 16% of the total materials handled at all of our facilities being sent to landfill, we are well ahead of this statewide target. Our ability to provide these recycling and diversion rates are major benefits to our customers and the jurisdictions we service, who trust in our reliability to deliver on our commitment to sustainable material management.

- ▲ From 2009 through 2011, our recycling efforts reduced Greenhouse Gas emissions (GHG) by nearly 1.7 million metric tons of GHG emissions by recycling.
- ▲ Our goal is to manage over 1,200,000 tons of waste annually by 2015 and achieve a combined, overall recycling rate for all of our facilities of 90%.
- ▲ From 2009 through 2011, our compost assisted in saving approximately 120 million gallons of water annually.
- ▲ From 2009 through 2011, we saved over 20,000 tons of soil from being eroded annually and reduced the amount of fertilizer being used by more than 5,000 tons annually.

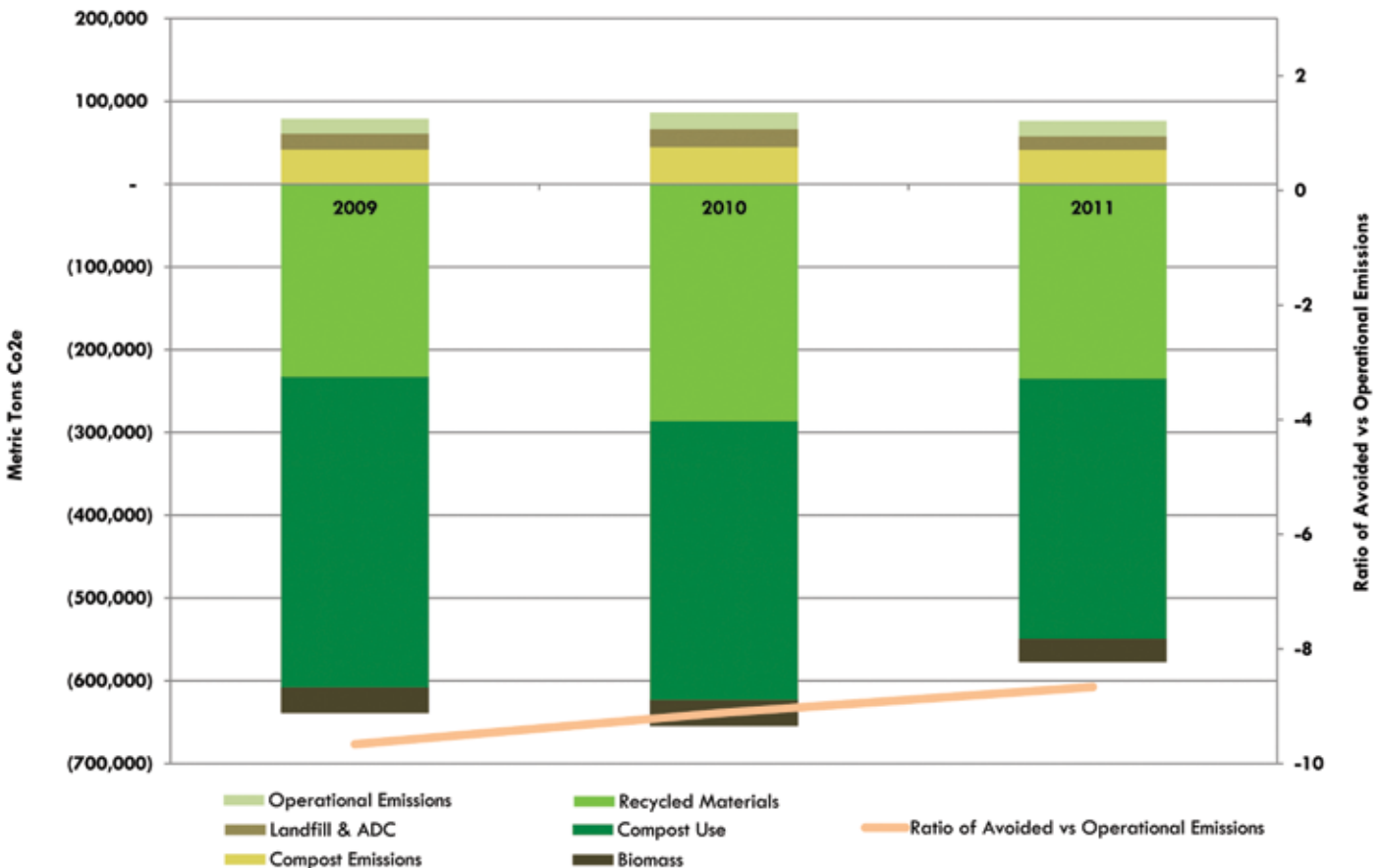
AVOIDED GREENHOUSE GAS EMISSIONS

By increasing the total tonnage of materials diverted from landfills, our companies offer an important contribution in the battle to combat climate change. The resources we divert away from landfills result in direct energy savings, as re-manufacturing requires less energy than processing these materials from virgin resources. Additionally, by converting organics to compost and integrating organics back into the soil, we are increasing soil carbon storage, reducing water consumption and fertilizer usage, resulting in decreased Greenhouse Gas Emissions (GHG). Using the Environmental Protection Agency's (EPA) Waste Reduction Model (WARM) and best practice information supplied by the California Air Resources Board (CARB) we have calculated these GHG savings.



By using these emissions calculations we have estimated that our entire operation has avoided 1,686,000 metric tons of GHG emissions from 2009-2011. The graph below summarizes our operational emissions (emitted and avoided) and demonstrates how our avoided emissions outweigh our operational emissions by over nine times (for every metric ton of CO₂e emitted by our operations we avoid an average of 9 metric tons of CO₂e). Although we do not consider these avoided emissions as a direct offset to our operations, we do feel that the GHG reduction benefits are important to share with our stakeholders and our communities.

Summary of Avoided and Operational Emissions (2009-2011)

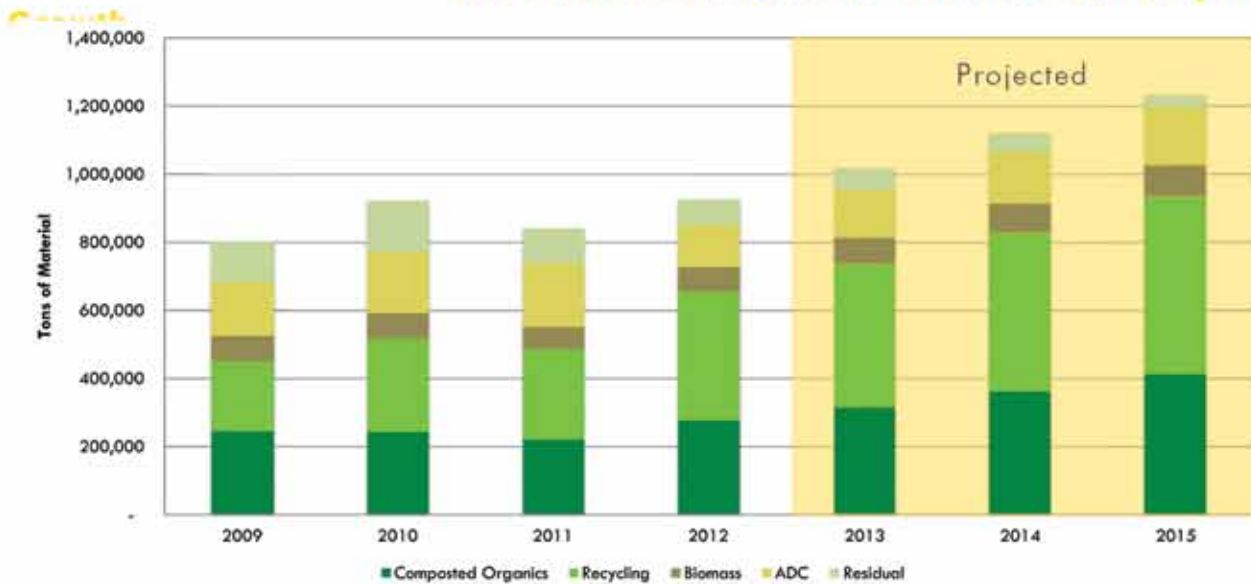




TONNAGE DIVERTED FROM LANDFILLS

As we look forward, the beneficial impacts of our increasing recycling rates provide multiple benefits to the communities we serve. By reaching our goal of managing 1,200,000 tons of waste annually at a 90% recycling rate, we will continue to offer communities opportunities to reach high diversion rates with a minimal overall carbon footprint. The following graph illustrates the breakdown of tonnages from 2009 to 2011 and how we expect our tonnage and recycling rates to change into the future.

Breakdown of Materials Processed and Projected



Using our 2015 projections, which include our expected increases in recycling rates, we anticipate that we will avoid over 760,000 metric tons of carbon dioxide emissions annually by 2015. Through increased recycling, education and outreach we are excited and committed to play an integral part in California's Climate Change goals.

Operational and Avoided Emissions Projections



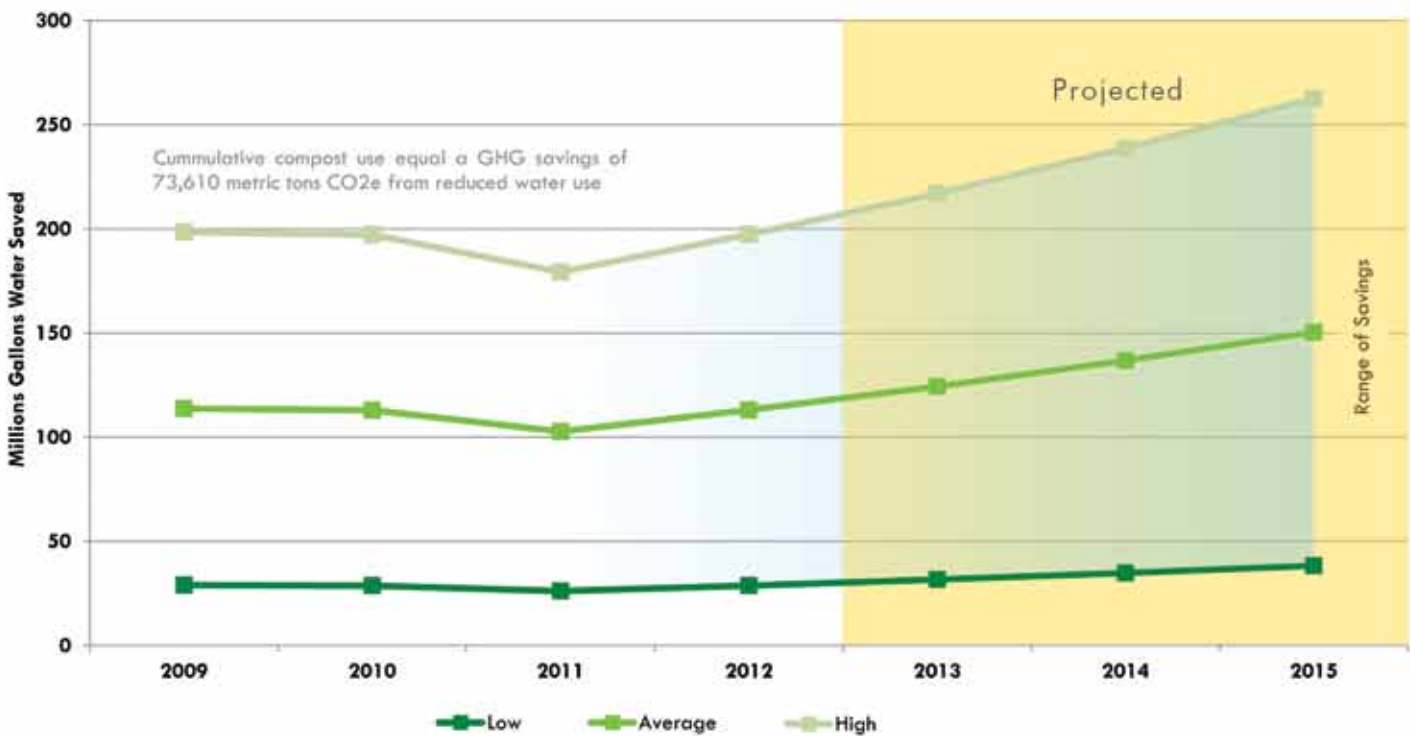
WATER SAVINGS

Our ability to create compost from organic discards at our Z-Best facility increases the availability and incorporation of valuable soil amendment used in many agriculture applications and landscaping projects throughout Northern and Central California. In addition to reducing Greenhouse Gas Emissions (GHG) and increasing landfill diversion, compost also provides additional benefits such as water usage reduction, soil erosion prevention and a decrease in synthetic fertilizer use. Using CARB's Technical Document¹ we have estimated current and future water savings that can be achieved by our operations.



Water scarcity has emerged as a significant concern in the State of California (as well as many other Western States) and water conservation has become a high priority. When compost is applied the density of the soil decreases, allowing more water to be stored in the spaces between particles. Additionally, compost acts like a sponge, further reducing the overall amount of water needed. Furthermore, pumping and transporting water requires enormous amounts of energy (resulting in GHG emissions) and impacts surrounding ecosystems. Fortunately, these effects can be mitigated as we use water more efficiently. From 2009 to 2011, application of our compost has been calculated to save 110 million gallons of water annually² and between 2012 and 2015 application of our compost is projected to save approximately 131 million gallons of water annually. Between 2009 and 2015 application of our compost is also anticipated to assist in saving 73,610 metric tons of carbon dioxide equivalents.

Millions of Gallons of Water Saved



¹ Method for Estimating Greenhouse Gas Emissions Reductions from Compost from Commercial Organic Waste, published November 14, 2011.

² The CARB Technical Document provides a range of water savings from the use of compost.



SOIL AND FERTILIZER SAVINGS

The application and use of compost plays an important role in decreasing soil erosion and reducing the amount of chemical fertilizer needed to enhance the productivity of dirt. Preventing erosion by enhancing soil helps to conserve the naturally occurring nutrient-rich top layer of soil. Additionally, stopping erosion protects local waterways and ecosystems that can be severely damaged from the release of silt, fertilizer, pesticides and herbicides in the environment. Lastly, compost application encourages the healthy balance of organisms that soils need to remain fertile, reducing the need for chemical fertilizers.

Tons of Soil and Fertilizer Saved from Compost Use



Utilizing compost reduces the amount of synthetic fertilizers needed, thus reducing the amount of virgin material needed and saving energy in the harvesting and processing of virgin materials. By keeping soil healthy, we allow it to capture carbon that may otherwise escape into the environment as carbon dioxide. Using CARB's Technical Document we have measured the decrease in soil erosion and reduced fertilizer consumption resulting from the use of our compost from 2009 to 2011, as well as the potential future impacts of our operations. From 2009 to 2011, use of our compost has saved over 67,000 tons of soil from being eroded and prevented almost 17,000 tons of fertilizer from being used.



our
environment



Preventing negative environmental impacts from our business operations is of the utmost importance to our companies. We monitor our energy use, air quality and Greenhouse Gas Emissions (GHG) impacts. We have also made huge strides in “greening” our internal operations by reducing our waste, promoting green building design and implementing green and socially responsible purchasing practices. Our goal is not to achieve compliance, but rather to exceed all regulations, standards and industry best practices.

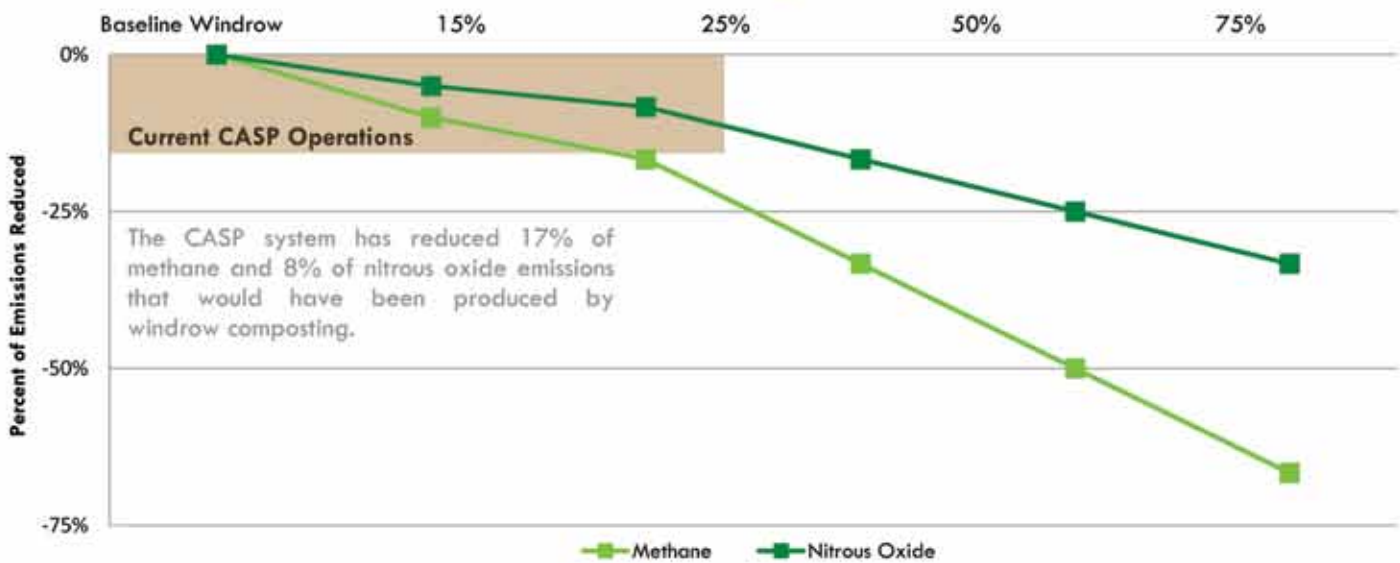
- ▲ We have made strides in significantly reducing air emissions by using advanced technologies and replacing older machinery.
- ▲ Our companies voluntarily report our GHG emissions on a nation-wide platform after third-party verification is completed.
- ▲ In early 2012, a new biodigester was installed to process all wash water generated at the GreenWaste MRF, ensuring the water is as clean as possible before it leaves our facility.
- ▲ Our facilities participated in a wetland restoration project in an effort to help preserve and protect the natural habitats in the San Francisco Bay.
- ▲ We actively pursue green building certifications for all of our facilities.

AIR EMISSIONS

Our companies closely monitor both air quality and Greenhouse Gas Emissions (GHG) to ensure our business practices are in line with local and statewide goals. The most significant air quality impacts from our business come from our compost operations at Z-Best. A typical open windrow composting operation releases both ambient air pollution and GHG emissions. At Z-Best, we maintain our facility by using best composting practices and Covered Aerated Static Piles (CASP) to control emissions. All our MSW/food waste composting occurs in bags, which cover and enclose the material. Both methane and nitrous oxide (greenhouse gases) are significantly reduced through these practices. The graph below demonstrates the reduction in emissions compared to standard compost practices associated with our current CASP emission controls and potential future controls.



Percent Reduction in Air Emissions through Covered Aerated Static Piles



In 2011, Zanker listed the Z-Best Food Waste Composting Program with the Reserve and became the first composting GHG emissions offset project in North America! This is a landmark event for composters across the nation who will have the ability to sell carbon credits (CRTs), creating economic incentives for the development of compost processing infrastructure as jurisdictions move toward zero waste and divert more organic materials away from landfills. CRTs can only be earned for new practices such as food waste diversion. Of the total 283,000 tons of organic waste per year, roughly 20% of the collected tonnage is eligible for CRTs. Each CRT represents nearly 1 metric ton of carbon dioxide from being emitted into the atmosphere. Because Z-Best utilizes fully enclosed and positively aerated CTI technology, GHG emissions and odors that would be generated from traditional open windrow composting are minimized. Carbon credits provide further opportunity to help develop new revenues in our community that will in turn make organics processing, aerobic composting and anaerobic digestion technologies economically viable long-term solutions to both battling climate change and moving towards zero waste.

In addition to our composting operations, our companies own and operate stationary processing equipment and hundreds of machines and vehicles that are both highly regulated for ambient air pollution and GHG emissions. Our companies maintain excellent environmental compliance records for the stationary plants (grinders, trommels, paint booths, etc.), off-road diesel fleets (loaders, dozers, excavators, etc.) and on-road fleets (collection vehicles). Because fuel usage is a major component of our operations, we are committed to operate all of our equipment as efficiently as possible and maintain a facility and fleet that is in full compliance with the California Air Resources Board (CARB) and local Air Districts.



In the summer of 2012, GreenWaste retired 10 older (Tier 0 engines) wheeled loaders used to collect yard trimmings and replaced them with 10 new (Tier 3 engines) wheeled loaders. While GreenWaste was not required to retire these machines, by utilizing grant funding from the Bay Area Air Quality Management District's Carl Moyer Grant Program, we were able to retire these machines earlier than was required in order to reduce GHG emissions.



Zanker recently underwent an electrification project at both outdoor material recovery operations in San José that included replacing older diesel powered stationary processing plants with new electric powered equipment. The electrification project took over 18 months to complete and resulted in an annual reduction of 81 metric tons of GHG per year, or approximately 20% of each unit's GHG output.

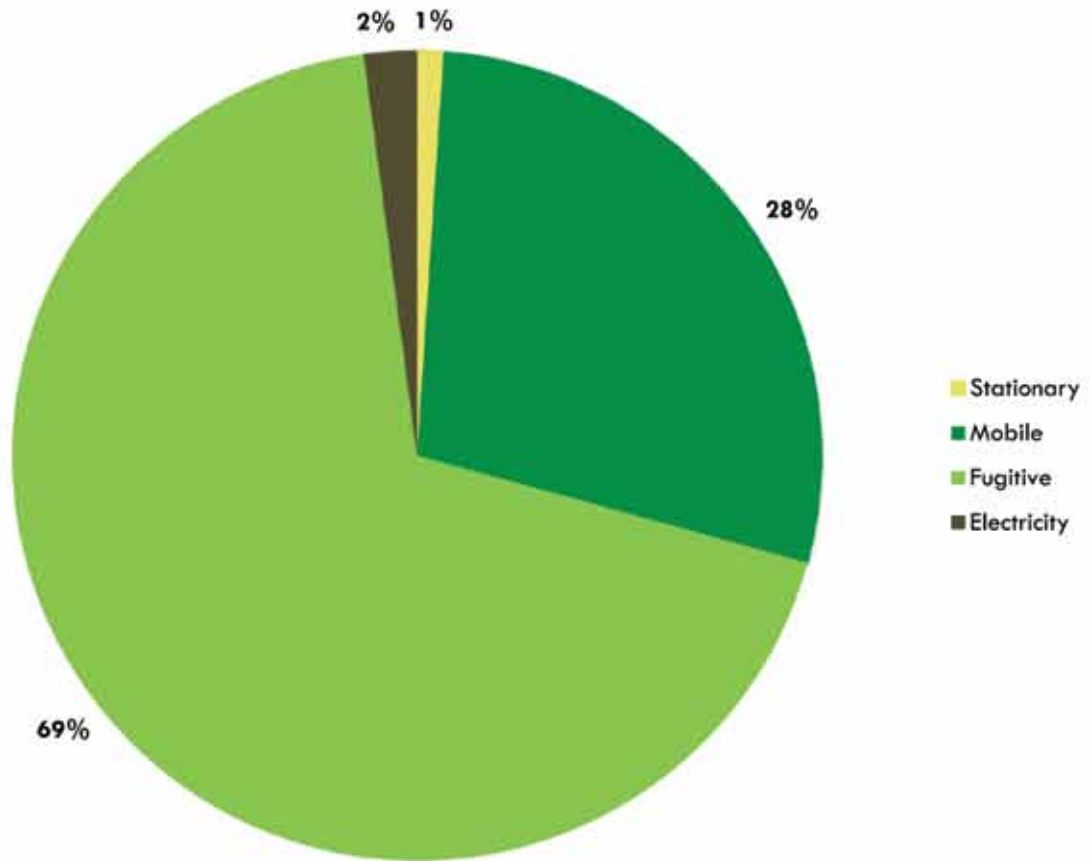


Climate Registered™

We believe managing our Greenhouse Gas Emissions (GHG) is one of our most important goals as it also helps us reduce other environmental impacts. In order to best manage GHG, we needed a baseline from which we could quantitatively evaluate our impacts. In order to demonstrate our commitment to responsible environmental practices and further the transparency of our companies, we voluntarily report and have verified our emissions inventories through The Climate Registry (TCR).

Our largest sources of emissions in 2011 were fugitive emissions from compost (69%) and mobile emissions from vehicles (28%), as shown in the following graph. We have already taken steps to control emissions at our composting operation through the use of Covered Aerated Static Piles (CASPs) and best practices. Additionally, our fleets utilize biodiesel whenever possible. For all new contracts we will be proposing trucks with less carbon intensive fuels, such as Compressed Natural Gas (CNG).

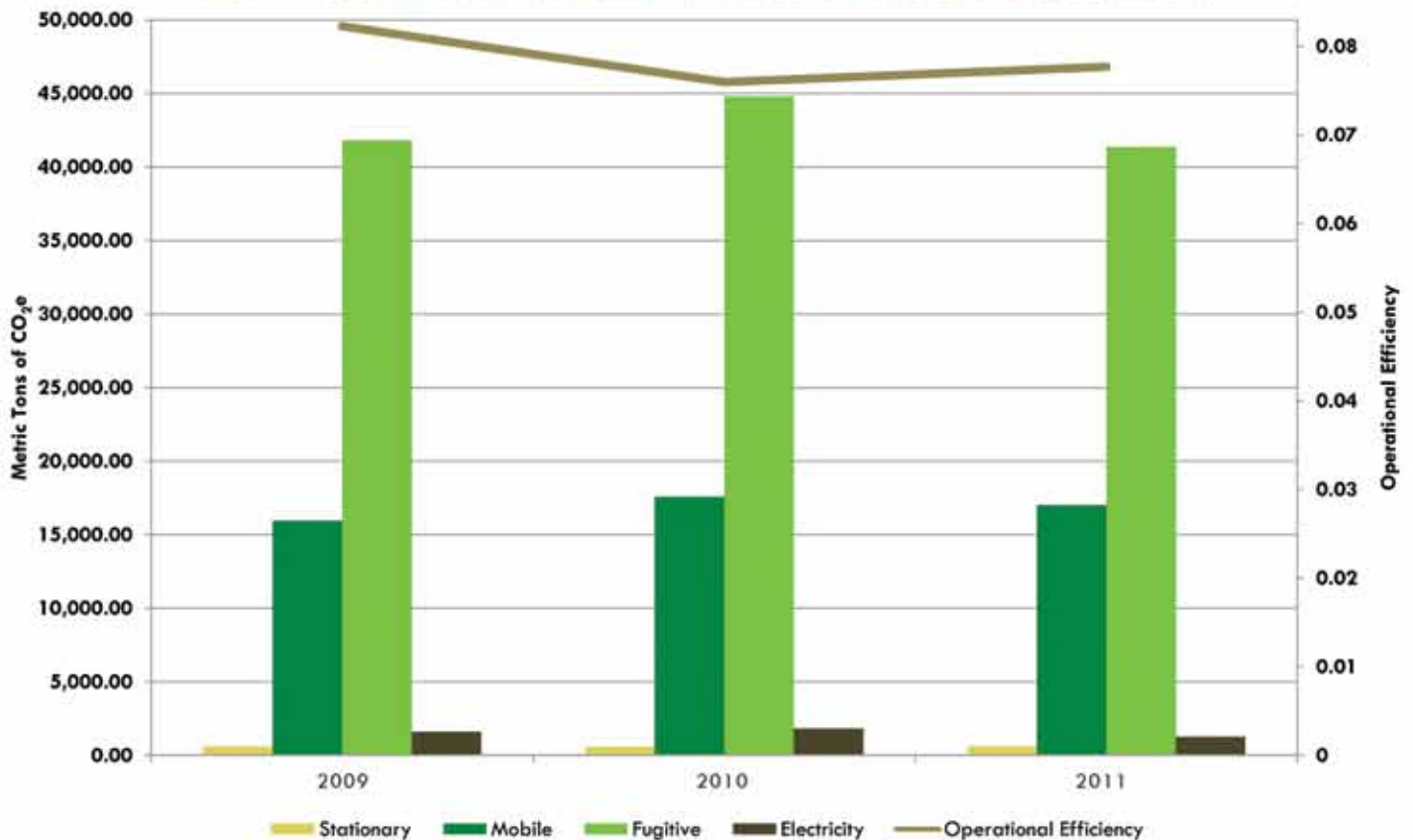
Breakdown of Emissions Inventory (2011)



We have made significant strides in reducing emissions from some of our smaller emissions categories by including renewable energy at the GreenWaste MRF and electrifying our stationary equipment at our two outdoor material recovery operations in San José. Upon completion of the new MRF, we contracted a local solar company (SolarCity) to install 1,552 dual-array solar panels that generate more than 400 kW-hours of zero-emission electricity; enough to power 40-50 houses. Other energy efficient operations include the installation of new T-8 fluorescent lighting and motion sensors at each of our facilities, reducing our overall energy demand. Further, by electrifying our stationary equipment we also reduce harmful GHG emissions. Over time we can see how our emissions inventory is controlled by the amount of materials we process, as shown by the graph below. **Our goal is to increase our operational efficiency to 0.07 metric tons CO₂e emitted per ton processed by 2015.**



Summary of Emissions and Operational Efficiency (2009-2011)



WATER AND WASTE

Water management at our operations is extremely important to us as water scarcity is an important issue in California. We hold ourselves to the highest standard when managing waste generated by our operations and have incorporated many water conservation practices into our ongoing operations. We have set goals to reduce the total water used at our facilities, to recycle and reuse as much water as possible and to ensure any discharge from our facilities is clean.

Our C&D Rocket at Zanker Material Processing Facility (ZMPF) and the truck wash in our Palo Alto operations yard both recirculate water through their internal systems, reducing the demand for fresh water. In 2012, we upgraded the wash pad and installed a new biodigester at the GreenWaste MRF to process all wash water generated prior to discharge. This ensures our operations are not impacting the wastewater treatment plant and ultimately the San Francisco Bay. Through our wetland restoration projects, we are enhancing the ability of our surrounding wetland habitats to naturally preserve and protect scarce water resources. We have also planted water efficient landscaping and vegetative swales at ZMPF, GreenWaste's maintenance yard and our Watsonville facility to conserve water and naturally treat storm water prior to discharge.



All of our offices have a zero waste office policy. Our Zanker facilities and Berger Office are equipped with water efficient toilets and waterless urinals to conserve water. As a part of our internal recycling program implementation, we engaged the participation of all our employees and provided education and training to assist in their understanding of the importance of recycling and composting. We created our own signage, ensured adequate and appropriate containers were conveniently located and conducted multi-lingual training for each department. Our janitorial staff was also trained to identify contamination and to maintain proper separation of materials. To ensure the success of the program, we initially conducted weekly informal audits and as contamination decreased, we reduced the frequency of informal audits to quarterly.

It is our goal to maintain zero waste recycling targets at all of our facilities and promote green practices at all of our offices. We believe by practicing internally what we preach to our communities, we are instilling our employees with a strong company culture that not only participates, but also understands WHY it is important to reduce, reuse, repurpose and recycle. Our zero waste/green office programs ensure that our company and our employees are acting in a responsible way. We believe this also helps facilitate in a ripple effect that ultimately touches each employee's family and each customer they have the opportunity to interact with on a daily basis.

ZANKER'S 2011 WETLANDS RESTORATION PROJECT

Zanker Road Resource Recovery Operation and Landfill (ZRRROL) and Zanker Material Processing Facility (ZMPF) are both located on the southernmost edge of the San Francisco Bay. It is important that our sustainable business practices incorporate the conservation and restoration of habitats that currently exist around our operations. In order to support this effort, we worked to restore 3 acres of wetland in the western portion of our property at ZMPF. After nearly one year, our wetland restoration project is clearly a success as plants and wetland animals have been flourishing. We are committed to the ongoing management and monitoring of the site to ensure its long-term success.

It is our goal that the 3 acres of our restored wetland, in combination with the larger wetland restoration projects occurring in the Alviso area, will provide a healthy and safe habitat for a multitude of birds, fish, mammals and invertebrates that are dependent on these areas for survival. Our restoration is a small way that we can contribute to an important initiative in the South San Francisco Bay.





GREEN BUILDING AND OPERATIONS



To ensure the success and efficiency of our zero waste policy, we have implemented a company-wide Environmentally Preferable Purchasing Policy (EPPP). Both GreenWaste and Zanker have developed a purchasing list for commonly used office, cleaning and break-room supplies that contain recycled content, conserving resources such as energy and water whenever possible. By incorporating environmental considerations in our purchasing, we are actively reducing the impact of our operations on the environment, avoiding unnecessary hazards, protecting public health and helping develop and support markets for environmentally responsible products.

Through these and other management practices, we have been certified as a green business at our Corporate Office and GreenWaste of Palo Alto's main office. Additionally, we are working to certify Zanker Road Landfill, ZMPF, and GreenWaste's Watsonville yard as green businesses. **It is our goal for 100% of our facilities to be certified green businesses by 2015.**

What is environmentally preferable purchasing, and how does it help divert waste from landfills?

Environmentally Preferable Purchasing Policies (EPPP) are programs for companies to provide purchasing preference for products with reduced environmental impacts. These include products with increased recycled content, reduced packaging and environmentally friendly substitutes to toxins. These programs help create markets for recycled goods, increase demand for recycled products and can reduce the total waste to landfills. We understand that some of the biggest impacts we can make to our environment have to do with the way we influence our suppliers and broader upstream and downstream footprints of our operations.

ENVIRONMENTAL REGULATIONS AND VIOLATIONS

GreenWaste and Zanker have maintained a history of environmental performance and we continue to improve our environmental record by implementing our comprehensive Environmental Compliance Program. All of our facilities are regulated by the California Department of Resources, Recycling, and Recovery (CalRecycle) and the Local Enforcement Agencies (LEAs). Both GreenWaste and Zanker have a dedicated and highly effective Environmental Compliance Team, which implement a comprehensive Environmental Compliance Program for all aspects of our collection and processing operations. We are committed to the best utilization of technology, equipment and manpower combined to operate safe and fully compliant fleets and facilities. The Environmental Compliance Team is thoroughly trained and stays on the forefront of ever changing and evolving environmental regulations. We frequently attend trainings and workshops held by regulatory agencies and integrate new technologies and methodologies into our Environmental Compliance Program. We also actively participate in industry organizations including California Refuse Recycling Council (CRRC) and California Resource Recovery Association (CRRRA) to keep apprised of upcoming legislation and regulations which impact our industry.

Since 2007, GreenWaste has received only one minor violation of our Solid Waste Facility Permit (SWFP). This occurred during the construction of the new MRF building and was due to traffic congestion that created high levels of mud, dust, debris and litter. Since the new MRF has been fully operational, we have not received another violation from the LEA.

Since 2007, we have had only three violations at our Zanker facilities and we have received no violations since 2008. One violation received was related to permitted tonnage at Zanker Road Resource Recovery Operation and Landfill (ZRRROL) and the second and third violations received were related to drainage issues at Z-Best, with an additional housekeeping item noted. The first violation occurred at ZRRROL, where inspectors found an excess in daily permitted tonnage of 2% and we have since maintained compliance. The two violations at Z-Best resulted from removing soil build-up behind the building too slowly and the discovery of a broken loader that was blocking the flow of water in a drainage ditch. To address these violations, we were instructed to clean the site 5 times a week and have since maintained compliance.

Our facilities are also governed through permits issued by the following State and local regulatory agencies:

- ▲ California Department of Toxic Substances Control (DTSC)
- ▲ California Department of Industrial Relations (OSHA)
- ▲ California Regional Water Quality Control Board (RWQCB)
- ▲ California Air Resources Board (CARB)
- ▲ County of Santa Clara and County of Sacramento
- ▲ City of San José
- ▲ Local Fire Departments
- ▲ Army Corps of Engineers
- ▲ Bay Conservation and Development Commission
- ▲ U.S. Fish and Wildlife Service



our
employees



Our companies are proudly family-owned and operated. We believe that this gives us an opportunity to create a unique work environment where our employees have an extended family in their coworkers. Our employees are entitled to a safe place to work with equitable and fair benefits and pay. Additionally, our management team maintains an open door policy and an active engagement program that ultimately allows us to provide an outstanding employee appreciation program.

- ▲ Our employees are our most valuable assets and we work every day to provide a safe, enjoyable and engaging place to work.
- ▲ We believe in a family oriented culture where every employee understands the integral nature of their position and feels recognized for the critical role they play in our companies – gaining satisfaction knowing they are contributing to a better future by encouraging recycling and reducing waste.
- ▲ We strive to provide exceptional customer service through a satisfied and happy workforce.



EMPLOYEE ENVIRONMENT

The most valuable assets our companies have are the 550+ people we employ. Our staff requirements range from management, administrative, equipment operators, sorters, mechanics and drivers - all of which are a vital member of our family. From the beginning, we understood that employee engagement was integral to our ability to keep attrition low, grow our companies and ultimately achieve our recycling goals. We instill in our employees a company culture that encourages environmental stewardship. We believe our excellent customer service record is a reflection of the value we place on our employees and their satisfaction working for our family of companies.

The ongoing success of our collection and processing operations, and our position as leaders in the industry, relies on our continued efforts to exceed service expectations in the communities we serve. We also continually strive to improve operations, employee morale and environmental sustainability in our workplace. By implementing company policies and programs that encourage sustainable practices, demonstrate environmental stewardship and provide cutting-edge, efficient and informative public outreach programs, we encourage San José, the San Francisco Bay Area, California, and hopefully the rest of the nation to **move away from landfill disposal and towards zero waste.**

EMPLOYEE SAFETY AND TRAINING

GreenWaste and Zanker's extensive Health and Safety Program establishes a safe working environment and its implementation is in full compliance with California Occupational Safety and Health Administration (OSHA) and all worker safety requirements. We prioritize the health and safety of our employees by providing a safe work environment with thorough training programs and frequent refresher courses. Whenever possible, we utilize machines for the most labor-intensive work, as we have found that mechanized processing equipment and automated collection results in significantly fewer work related accidents and injuries.



Initial training and annual refresher trainings are conducted at all of our facilities to ensure accidents and injuries are minimized. Our sorters are trained to work at all stations and are regularly alternated in their positions to reduce the potential for repetitive injuries. Our drivers are reminded daily to be safe on their routes and participate in monthly safety trainings. We have also implemented numerous safety programs including displaying safety highlights and bulletins throughout our facilities, establishing a driver safety incentive program that provides a cash pool for drivers who are accident-free and holding a bimonthly "lunch at the landfill" event. **With a focus on safety and a desire to continually improve upon and renew current safety incentives, it is our goal to ensure a safe (and fun) work environment.**



BENEFITS AND EMPLOYEE APPRECIATION

All of our employees are provided competitive wages, including medical benefits, paid holiday and vacation time. Most of our employees are provided with a 401K plan including annual employer contributions. Additionally, we assist employees with getting further education and in obtaining the skills necessary for moving vertically through the company. For example, many of our sorters have moved up to become drivers with assistance and support from our company to obtain their Class "B" Commercial Driver's Licenses. We also provide our staff with management training twice a year.

We believe our employee appreciation program is one of the best ways to show and help each individual understand how important their hard work is to our companies. Each of our offices have incentive programs to encourage safe work practices, excellent customer service and exemplary attendance. In recent years we have had annual holiday parties and offer outings to sporting events, such as San José Shark's games or Ultimate Fighting, for employees and guests. We have also provided gifts on mother's and father's days in our offices, hosted baby showers, provided turkeys for Thanksgiving, held monthly birthday parties and hosted bimonthly lunches at our Landfill for both employees and customers. We believe that having a fun office improves our employee morale. We have offered contests for best office Halloween decorations, best costume, and most outlandish holiday sweater. We also have our employee's children join us to trick-or-treat for the Halloween season.

Our Employee Appreciation Program has included:

- ▲ Attendance, customer service and safety incentive programs
- ▲ \$150 annual boot allowance
- ▲ Tickets to sporting events
- ▲ Crab cioppino event
- ▲ Monthly birthday lunch celebrations
- ▲ Quarterly BBQ's and taco feeds
- ▲ Snack subsidy and healthy alternatives for vending machines
- ▲ Flu vaccination event
- ▲ Holiday parties and holiday themed inter-office competitions
- ▲ Discounted certificates through employee appreciation events for restaurants, movies and shopping

The background is a solid teal color. Overlaid on this are white line-art drawings of architectural structures. On the left, there is a tall, multi-story building with a series of windows. In the center, there is a shorter, wider building with a similar window pattern. On the right, there is a large, rounded dome structure, possibly a library or a public building. The text 'our communities' is centered horizontally and vertically over the middle of the image.

our
communities



We believe being a socially responsible company leaves behind a legacy of sustainability. Our mission is to change the way the world around us perceives and manages waste. This will ultimately ensure that discards are first recognized as resources and waste as a last resort.

We will accomplish our goal by collaborating with our local jurisdictions, challenging our peers and prioritizing the development and application of innovative technologies. By threading together these three vital components we can offer solutions to our communities as they participate in the creation of their own sustainable legacy.

Critical to this effort is the support of education, the engagement of younger generations and harnessing community involvement and momentum. Our outreach and educational efforts are offered to all the communities we serve. We have also dedicated resources to low-income and historically underserved communities. Involving the youth in our movement that balances sustainable resource extraction with the recycling and management of waste is vital to securing an environmentally and economically sound and sustainable future.

- ▲ We believe in giving back to the communities around us by supporting educational, non-profit and community-organizations.
- ▲ Our commitment to our customers goes above and beyond collection and processing services – from helping return beloved family items recovered from rubble in the Loma Prieta earthquake to assisting in the recovery of Petaluma after a devastating flood.
- ▲ Assisting the cities we serve to achieve their own sustainability goals is just one of the reasons we push the boundaries of technology, advance education and adapt our outreach programs to each of our communities.
- ▲ In support of our mission to be a socially responsible company, we work within our industry to promote information sharing so everyone can benefit from our lessons learned.



ACHIEVING COMMUNITY GOALS

The City of San José's Multi-Family Dwellings (MFDs) were suffering from extremely low recycling rates of approximately 15-18% despite the dedication of significant resources from the City targeting behavioral changes among MFD communities. As is the case with most MFDs, a lack of economic incentives, spatial constraints and high unit turnover were rendering the City's efforts ineffective. GreenWaste saw an opportunity to assist the City in achieving their desired results and began conceiving a processing solution to increase recycling rates for MFDs and similar waste streams. The GreenWaste MRF has ultimately assisted the City of San José in making great strides towards reaching their Green Vision Goals, specifically Green Vision Goal Number 5 – divert 100% of waste from landfills. We work with the City of San José (and their current hauler) to redirect and process MSW from the MFD complexes. This unique and collaborative effort has been highly successful in increasing diversion (from 15% to over 75%) and GreenWaste was awarded the 2009 Recycling Excellence Gold Award by the Solid Waste Association of North America (SWANA) for our efforts in processing and diverting material from MFD complexes in the City of San José.

COLLABORATION

Since our inception in 1985, we have collaborated with many other solid waste and recycling collection and processing companies. We continue to share information and work together on finding technologically and economically feasible solutions to the many challenges faced by our industry. We not only open our doors to provide tours to other collection and recycling companies, we also process material for our competitors, which is atypical in the industry. We collaborate and offer in-kind collection and processing services to many educational, non-profit and community organizations to improve their recycling rates for their events. We work closely with jurisdictions to conduct waste characterization studies and waste stream audits in order to determine the most efficient and cost-effective method to recover as much material as possible from the varying waste streams.





Loma Prieta Earthquake of 1989

Following the Loma Prieta earthquake, Zanker Road Landfill was used to handle all of the building debris that was destroyed in San Francisco's Mission District. Because of the unbelievable personal hardship caused by this earthquake, we worked hand-in-hand with the City of San Francisco and carefully sorted through the incoming debris in an effort to salvage and preserve invaluable personal treasures (photographs, papers, jewelry, heirlooms, keepsakes, etc.) and return them to their rightful owners.



Petaluma Flood of 2005

The final week before GreenWaste transitioned into the City of Petaluma as the new hauler, a powerful storm flooded a large portion of the City including our corporate yard. Despite the short timeframe and other obstacles, we still completed all routes and provided emergency services. Hundreds of containers were provided to flood victims and we helped citizens remove wet debris from their homes and businesses at no charge.

COMMUNITY OUTREACH AND SUPPORT

Support of the communities we serve centers around connecting with youth, educating the general public, increasing awareness about recycling, composting and resource recovery and being involved with our local non-profits, environmental organizations, community groups and educational institutions. Our Community Outreach Program includes event sponsorship and participation, direct monetary donations and in-kind services. We strive to keep our Community Outreach Program alive by offering services and assistance including: presentations in the classroom, at school conferences and assemblies, offering library and classroom book readings, staging truck demonstrations, engaging students in recycling games, developing age and waste stream appropriate recycling posters, stickers and guides and assisting with the development of curriculum.

GreenWaste develops and distributes our own area-specific quarterly newsletters that include a "green kids" section with different themes and seasonal activities relating to recycling and waste reduction. We also created a superhero "Captain GreenWaste," and his sidekick bulldog "Recovery," who are the stars of our newsletters and the role-model characters in our 20-page full size coloring book, "Color the Earth Green." It includes a two-page educational comic strip and a range of different coloring and educational activities geared toward different age ranges.



We are proud supporters of the Happy Hollow Foundation (a historical park in the City of San José that provides educational programs to young children) and also the Reach Your Scholarship Foundation (which supports kids in overcoming diversity through sports). We sponsor several youth sports teams, performing arts groups and foundations of elementary, middle and high schools throughout the areas we serve. We are regular sponsors and participants in the Pumpkins in the Park, Bark in the Park, Christmas in the Park, San José Anti-litter Program's Great American Pick-up, Festival in Hellyer Park, the San José Parks Foundation, Friends of Guadalupe Park & Garden, San José's Spring in Guadalupe Gardens event, the Capitola Begonia Festival, Music at Skypark in Scotts Valley and The Pink Flamingo Golf Tournament supporting the Spinal Cord Society of Santa Cruz. We provide annual support and participate in the Green Vision/Green Schools – Bay Area Schools Environmental Conference and San José State University Blue & Gold Go Green Expo Day as well as sponsor and support several environmental organizations like Save our Shores and Bay Friendly Coalition.



We are exceptionally proud of the Christmas event we participate in each year in Alviso. We work with the local community and elementary school to supply funding for scholarships to provide Christmas Trees and food in their annual Santa Visits Alviso Event. This annual event hosts anywhere from 800 to 1,000 children and parents at the local school. In addition, we also support 2 to 4 local families every year who need assistance during the holidays by providing grocery store gift cards and presents to the families, in an effort to ensure that individuals in our local communities can enjoy a happy holiday season despite encountering financial hardships.

As supporters and advocates for our local businesses and communities, we maintain active involvement in our local Chambers of Commerce and Rotary International Chapters, with the goal of being a part of our communities' future, working to ensure both economic vitality and environmental responsibility. Our staff is a part of the San José Chamber of Commerce Political Action Committee, supporting development of local businesses, local professionals and bringing best practices from other cities in the nation to San José. We participate in the Gilroy Chamber of Commerce Government Relations Committee and the Legacy Board in Alviso. We are also supporting members of Acterra, which provides Business Environmental Awards to outstanding local businesses that are demonstrating excellent environmental and sustainability leadership.



Valley Verde is a non-profit organization that assists Santa Clara Valley families in creating and growing their own vegetables at home. Valley Verde aims to improve wellness and health of thousands of families, including those currently "priced out of a healthy diet". As a larger vision, Valley Verde would like to expand and partner with local residents to develop a vast network of home organic gardens.

Zanker has donated landscape materials and will continue to provide products and material donations in an effort to support Valley Verde's growing vision.

OUTREACH AND EDUCATION

GreenWaste was the focus of a Curiosity Quest episode that aired in 2010. Curiosity Quest is a family-oriented, environmentally conscious and upbeat educational program involving participation from the younger audience. The episode focused on the GreenWaste MRF and was geared toward younger generations to show the processes, operations and importance of recycling and diverting resources from landfills. GreenWaste has dedicated significant resources to develop targeted educational materials geared at younger audiences and conducts outreach, education and equipment demonstrations to K-12 schools in the region. We understand the importance of educating and investing in future generations in a focused and purposeful effort to instill in them the knowledge, tools and resources to make environmental sustainability and resource conservation an ingrained and habitual part of living on this earth.



The Public Education and Outreach Program developed and implemented for our Palo Alto operation is an excellent example of the vital role outreach programs play in achieving and sustaining high diversion rates. Since the City of Palo Alto contracted with GreenWaste of Palo Alto (a joint-venture partnership between GreenWaste and Zanker) in 2009, all commercial customers and every school are offered organic waste collection services to compost food scraps and soiled paper from their waste streams. This is an integral component of the City of Palo Alto's Zero Waste Plan. All compostable materials collected are delivered to the GreenWaste MRF and eventually transferred to Z-Best for composting. A critical part of this program's success is the effectiveness of the outreach, education and technical assistance program offered by GreenWaste of Palo Alto staff to schools and businesses. These efforts are key to ensuring that the organic materials collected only contain minimal amounts of contamination. Because we are able to control the compostable materials from generation through collection, processing and composting, we are able to ensure higher recycling. These programs have helped Palo Alto businesses and residents achieve an 80% waste diversion rate for the entire community in 2010!

Below are a few examples of the successes we have had working with the schools in Palo Alto:

St. Elizabeth Seton School had minimal recycling when our outreach program began. During the initial assessment, some significant challenges with purchasing were identified, including the use of Styrofoam lunch trays, making it difficult to rollout a full-scale program. With our assistance, St. Elizabeth Seton now subscribes to 8 yards of compostables service weekly and is exclusively using compostable cardboard lunch trays.

Barron Park Elementary has fully embraced their zero waste goals. With our assistance and hard work, they cut their garbage volume in half by increasing recycling and implementing a composting program. Barron Park has reduced all garbage cans on campus to 10-gallons and has only one 1-yard garbage container collected weekly.

What goes into a successful outreach program?

A TON!

Here is a sample of the efforts made by our Outreach Department...

- ▲ Providing one-on-one, face-to-face, personal contact with businesses to create strong working relationships with facility managers and owners to explain our services.
- ▲ Acting as liaisons between our operations team, customer service department and our customers.
- ▲ Providing free education to residents and businesses about zero waste.
- ▲ Contacting businesses, explaining zero waste goals and programs, providing outreach materials, conducting on-site walk-through of the business to offer suggestions and helping implement new programs. This includes completing trainings and/or presentations and follow-up with the businesses on their program.
- ▲ Offering technical assistance to train janitorial staff on zero waste goals and programs.
- ▲ Working with and integrating driver feedback and suggestions to optimize collection services.
- ▲ Helping customers to reduce their garbage bills by participating in our recycling programs.
- ▲ Taking our outreach programs a step further and assisting our customers with green business certification, including assistance with better purchasing practices.
- ▲ Helping design zero waste plans for large events and attending many local events to have a presence in the community (Earth Day celebrations, farmer's markets, and major holidays).
- ▲ Developing customized commercial and residential newsletters that include waste reduction and recycling tips, upcoming events, seasonally applicable tips and a section for kids.
- ▲ Working with planning departments and offering suggestions on future garbage, recycling and compost needs for new buildings and larger zero waste plans.

our
future





Since the creation of our companies, we have always worked to anticipate how future regulations may impact our ability to conduct business. We are continually looking at ways to stay ahead of regulatory changes and future market demands. We feel that our balance of new technology and new collection systems play an integral role in the opportunities we will be able to provide to the communities we serve. As a part of our business model, we continue to “think outside the box” and constantly challenge what is considered the norm of the industry, encouraging a paradigm shift from a culture of disposal to a culture of diversion.

- ▲ Our vision is to continue to pursue zero waste through pioneering and promoting the widespread adoption of cutting-edge technology.
- ▲ Our Dry Fermentation Anaerobic Digestion Facility in San José will be the first commercial scale facility in the United States and the largest in the world. When fully built out, it will be capable of processing over 270,000 tons of organic waste (food scraps and yard trimmings) per year, producing more than 5.1 megawatts of clean, renewable energy.
- ▲ We were the first composter to list with the Climate Action Reserve and will be seeking verification for carbon credits in 2012.
- ▲ In partnership with our communities and our customers, we continue to investigate innovative ways to increase source separation onsite through education and new approaches to collection.
- ▲ We are assisting jurisdictions in meeting (and exceeding) recycling and diversion goals.



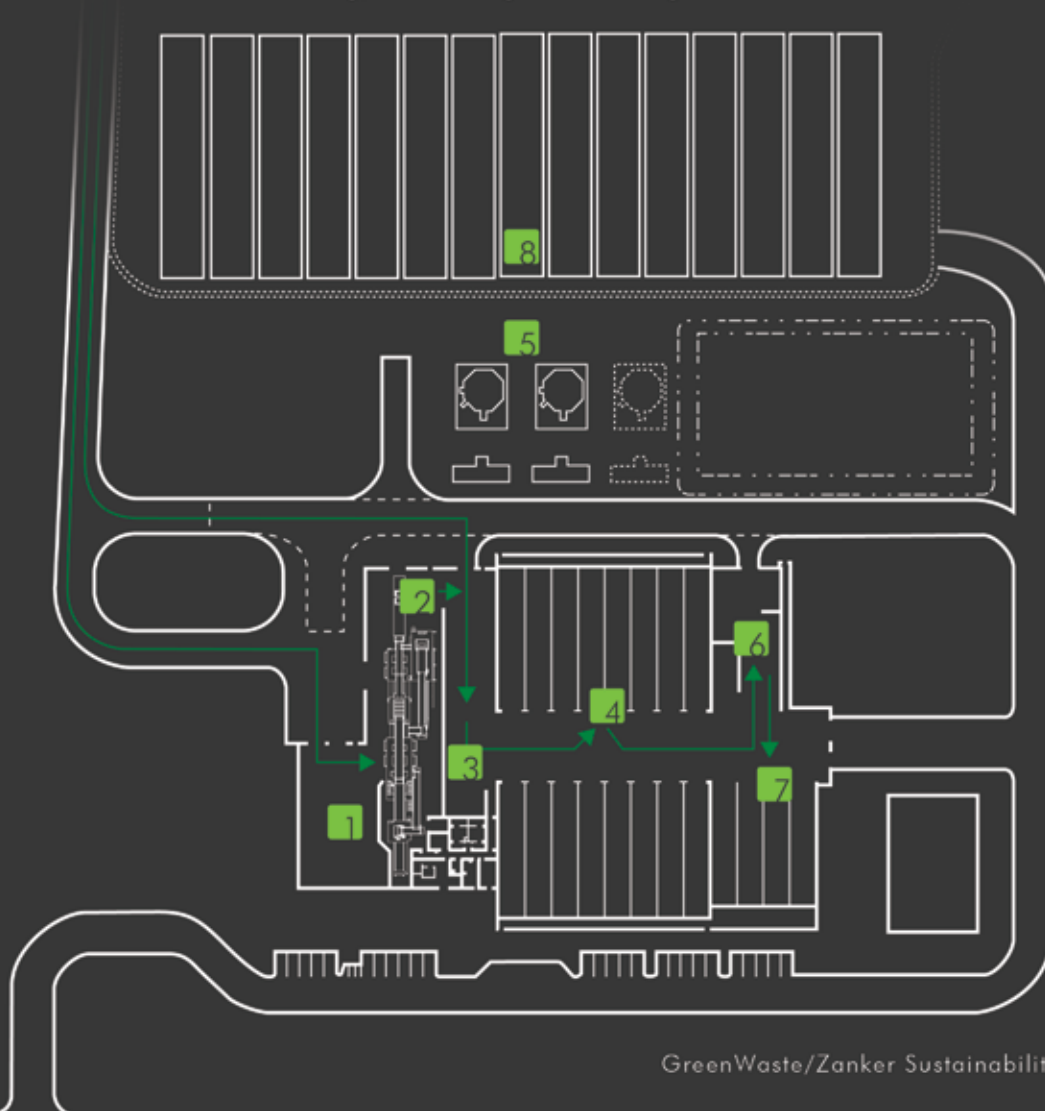
DRY-FERMENTATION ANAEROBIC DIGESTION

Our understanding of how to maximize material recovery through technological improvements is quickly advancing. The organic fraction of the waste stream is the largest underutilized resource being landfilled today. While we are already composting materials through an aerobic composting process at Z-Best, our highest and best use philosophy challenged us to find a better way. One of the technologies with the largest potential for the future is dry fermentation Anaerobic Digestion (AD). Anaerobic Digestion is a natural biological process in which bacteria breaks down organic matter in an oxygen-free environment. Decomposition occurs in several stages and converts organic matter into a combustible biogas with a high methane content, which can be used directly for heat and power generation. The by-product of this process is a high-quality soil amendment and compost ideal for landscape applications.

Taking the energy potential of organics to the next level, GreenWaste and Zanker formed a new company, Zero Waste Energy Development Company (ZWEDC) to develop and deploy the largest commercial scale Dry Fermentation Anaerobic Digestion and In Vessel Composting ("IVC") facility in the United States. Each phase of this three-phase project will be capable of processing 90,000 tons per year of organic waste (food scraps and yard trimmings), producing a high quality compost and approximately 1.7 megawatts of clean, renewable energy annually. When Phase One is complete, it will be the largest commercial scale Dry Fermentation Anaerobic Digestion facility in the world. Once fully built-out, the facility will process over 270,000 tons of organic waste and produce approximately 5.1 megawatts of clean renewable energy annually; enough to power an average of 4,500 homes each year.

The ZWEDC AD facility will be LEED certified and constructed on the former Nine Par Landfill site located between our two Zanker operations in San José. The facility will generate and run on 100% clean, renewable energy, providing surplus power to Zanker's adjacent processing operations with off-peak surplus power being sent back to the grid. The project will ultimately decrease the electricity demand at our Zanker facilities and significantly lower the GreenHouse Gas emissions impacts of our operations. We have completed the environmental review, been issued our Special Use Permit and Grading Permit. Our Public Improvement Plan and Building Permit application are under review. We broke ground in July 2012 and expect commercial operations to commence in the Summer of 2013.

- 1 **Receiving Hall:** Incoming organic material is delivered by transfer trailer for pre-processing (<10% contamination).
- 2 **Pre-processing Line:** Contamination from organic material is removed and the clean organic fraction is moved to the staging area.
- 3 **Staging Area:** Pre-processed organics and incoming clean organics delivered by collection vehicle are stored before being loaded into the Digestion Tunnels.
- 4 **Digestion Tunnels:** Clean organics from the Staging Area are loaded into the tunnels and deprived of oxygen for ~21-days to induce biogas production.
- 5 **Combined Heat & Power Units (CHP):** Biogas is extracted from the Digestion Tunnels and routed to the CHPs to generate electricity and heat.
- 6 **Decompaction Area:** Digestate from the Digestion Tunnels is de-compacted and structural material is added to increase porosity.
- 7 **In-Vessel Compost Tunnels (IVC):** Decompacted digestate is moved to the IVC Tunnels to complete the composting process in an aerobic environment.
- 8 **Windrows:** Compost is removed from the IVC Tunnels and placed outside the building into windrows for final curing, screening and storage.



CARBON CREDITS

Carbon credits will be an integral part of California's Cap and Trade system, designed to economically incentivize carbon reductions throughout the State as a way to meet AB 32 GreenHouse Gas Emissions (GHG) targets. Carbon credits will provide an 'offset' for businesses where they may purchase the tradable commodity if they are otherwise unable to reduce their direct GHG emissions. Currently, carbon credits can be bought and sold in a voluntary market until the Cap and Trade System is up and running. The Climate Action Reserve (Reserve) is the Nation's leading developer of standardized protocols for these carbon credits and they have developed a protocol that allows carbon credits to be generated by composting eligible materials, including food waste and food-soiled paper waste. Carbon credits are earned by calculating the avoidance of fugitive methane emissions at a landfill if the eligible materials had been landfilled rather than composted.

ADVANCED RECYCLING PROGRAMS

Over the past century, the way we view our discards and the methods of handling our waste have drastically transformed. What once began with hauler-based scavenging for materials with a reuse or resale value has evolved to a concept and practice of diverting material away from landfills. This has been accomplished in large part by transitioning toward a collection system where the waste generator assumes increasing responsibility for separating their discards at the source. The outdated model of hauling garbage as a single waste stream directly to landfill has been replaced almost uniformly throughout the state of California, and much of the world, to a new standard for waste management involving various source-separated collection programs and a two-container garbage/recycling collection system has emerged. Wet garbage still occupies its own container; however, the collection of dry recyclable materials evolved from every conceivable level of source separation to a largely single stream system with all clean recyclables being placed into one recycling collection container. What was once known as the traditional trash/recycling two-container system has, in most communities, further evolved to add a third collection container, targeting increased diversion of a separated organics stream, usually yard trimmings, food waste or compostables (a mixture of both types of organic material).

Relying almost exclusively on behavioral change, two- and three-container source-separated collection systems have indeed been successful. This is in part due to industry continually seeking to advance processing technology to supplement rather than rely solely on separation at the source. The innovation of Material Recovery Facilities designed to process wet garbage combined with the advancement of composting technology and emergence of dry-fermentation anaerobic digestion processes allows for virtually all wet materials to be recovered.

Traditional 2-Container Collection System



One-Stream Processed

Traditional 3-Container Collection System



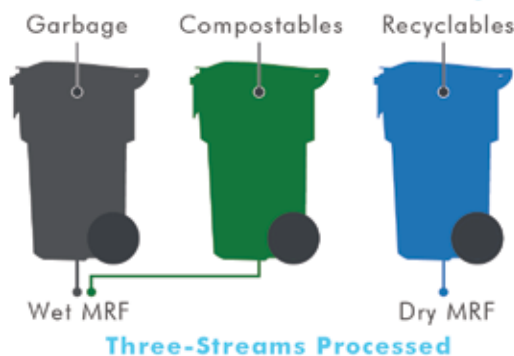
Two-Streams Processed

As the public becomes familiar with the three-container collection system and adept at waste reduction techniques, the long-term goal of this three-container system is to continue to refine consumption and disposal habits until our society can once again return to a new two-container system: one that no longer includes a trash stream, precisely because it no longer involves a stream of waste. This step cannot be accomplished with behavioral change alone. This new and improved two-container system is a zero waste two-container system, designed to allow for the collection of all materials for diversion into one of two collection streams: (1) dry/recyclables or (2) wet/compostables, with zero waste traveling directly from the curb to the landfill and only minimal residue from each stream now making the journey to landfill after processing.

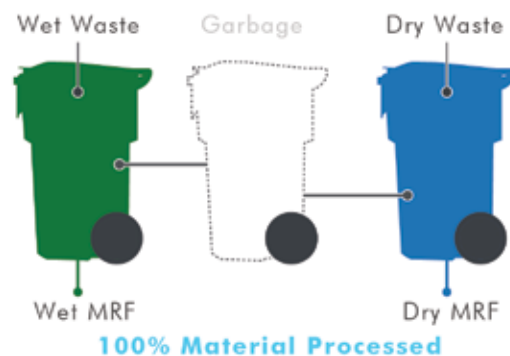
We are confident customers will have a significantly easier time determining the difference between wet material and dry material. The riddle of "wet or dry" is much simpler than trying to understand the difference between garbage and recycling or the nuance between why #2 HDPE jug is recyclable and a Styrofoam clamshell labeled #6, for instance, is not recyclable. While a more traditional garbage/recycling two-container system begs the consumer to ask the question, "is this recyclable?", the two-container wet/dry system does not require the consumer to know the evolving capabilities of the processing facility or understand the commodities markets. The two-container wet/dry system focuses on getting the consumer to put the wet/organic materials into the wet container and the dry/recyclable materials into the dry container. As long as they are successful, the non-compostable garbage will end up in the dry container, where it is more easily separated from the recyclable materials. Ask yourself, "what is inherently wet that is not compostable?" and you will find yourself riddled. Our ability to recycle and divert materials from landfill and ultimately move toward zero waste lies in the ability of the collection and processing systems to maintain the value of materials by minimizing contamination. By keeping like wet materials in one container, like dry materials in a separate container and processing both material streams, we offer communities a viable solution to reach their zero waste goals.

We recognize the transition to a zero waste two-container collection and processing system is not without its challenges. As an interim step, and one that allows us to continue to refine our wet/dry processing techniques, we have completed a partial transition to this new system for a few of the communities we serve. While the material collected from these communities is placed curbside in a three-container collection system, it is both collected and processed as if it were a two-container wet/dry system at the GreenWaste MRF. Not only does this ensure 100% of discarded materials are processed, it also minimizes the carbon footprint of the collection operation by enabling one truck pass at each premise using a split body vehicle with one side dedicated to their dry recyclables and the other side receiving their wet streams (garbage and compostables) that are commingled at the point of collection.

Advanced 3-Container Collection System



New Zero Waste 2-Container Collection System



our
promise



reduce



reuse



recycle

Thank you for being a part of our Sustainability Program through your interest in our report. Our program represents the hard work and dedication of our ownership and employees that keep our sustainable goals in the forefront of all our operations. We are committed to publicly report on our Sustainability Program on a consistent basis as we move closer toward achieving our goals. We feel fortunate that through the foresight of our ownership and leadership by our management we already have so much to be proud of. We recognize more hard work lies ahead and we welcome the challenge. We look forward to creating new opportunities for innovation, forging new partnerships, nurturing the communities in which we already provide services and ultimately pushing the limits of expectations in our industry to deliver on our a promise of a more sustainable future.

OUR GLOSSARY

Alternate Daily Cover (ADC) is cover material other than earthen material placed on the surface of the active face of a landfill at the end of each operating day to control vectors, fires, odors, blowing litter, and scavenging.

Assembly Bill 32: Global Warming Solutions Act (AB32) signed in 2006 directs the California Air Resources Board (CARB) to begin developing early actions to reduce green house gas emissions while preparing a scoping plan to identify how to reach 2020 green house gas emissions reductions.

Assembly Bill 341: Jobs and Recycling (AB341) signed in 2011 expands recycling to multi-family dwellings and businesses and directs Cal Recycle to ensure a 75% diversion rate of waste generated by 2020.

Assembly Bill 939: California Integrated Waste Management Act (AB939) signed in 1989 established a new direction for waste management with the creation of the California Integrated Waste Management Board (CIWMB) and set up a new mandate for local jurisdictions to divert at least 50% of waste by 2000.

Anaerobic Digestion (AD) is a biological process in which microorganisms break down biodegradable material in the absence of oxygen. It is used to manage waste and generate biogas and compost. It provides an effective method for turning food scraps and organic discards and residues from livestock farming and food processing industries into a methane-rich biogas that can be used to generate heat or electricity or create renewable fuels.

Bag Breaker tears open bagged waste for separation utilizing a large, counter-rotating drum.

Biomass is a renewable energy source, biological material from living or recently living organisms and it can be used directly (as woodchips for example) or converted into a biofuel.

Carbon Credits are tradable certificates or permits that quantify the emission of carbon dioxide or other greenhouse gases with a carbon dioxide equivalent to one ton of carbon dioxide. This is an integral part of California's Cap and Trade System designed to allow the market to drive industrial and commercial processes in the direction of low emissions or less carbon intensive approaches versus those used when there is no cost to emit carbon dioxide and other GHGs into the atmosphere.

Cardboard Screen has tri-shaped discs that create a bouncing, wavelike action on the material stream, liberating other types of fiber and contaminants from the cardboard. Smaller material falls through the Inter-Face Opening (IFO) between the discs, while the cardboard travels up and over the screen deck creating a clean cardboard product.

California Air Resources Board (CARB) is the clean air agency in the State of California. Established in 1967 combining the Bureau of Air Sanitation and Motor Vehicle Pollution Control Board, CARB is a department within the California Environmental Protection Agency and regulates air quality standards throughout the State.

CalRecycle is California's leading authority on recycling, waste reduction, and product reuse and is officially known as the Department of Resources, Recycling and Recovery. CalRecycle plays an important role in the stewardship of California's vast resources and promotes innovation in technology to encourage economic and environmental sustainability. CalRecycle also regulates all waste and recycling collection and processing operations throughout the State.

Compost Facility is a site where composting of yard trimmings or other organic materials occurs using mechanical handling techniques such as physical turning, windrowing, or aeration.

Covered Aerated Static Piles (CASP) refers to any of a number of systems used to biodegrade organic material without physical manipulation during primary aerobic composting. The blending admixture is usually placed on perforated piping, providing air circulation for controlled aeration.

CTI is a system used to encapsulate compostable materials into a 350' long bag that houses a forced aeration system. PVC pipes with tiny holes drilled inside are introduced into the bag and are used to aerate the compostable materials. Retention time in the bags is about three (3) months during which the organic material is naturally biodegraded through the microbial digestion.

Direct Baling involves feeding clean source separated loads, such as cardboard and film plastics from commercial and public sector facilities, directly into a baler.

Direct Emissions include all pollution from manufacturing, company owned vehicles and reimbursed travel, livestock and any other source that is directly controlled by the owner.

Diversion Rate is the percentage of waste materials diverted from traditional disposal (such as landfilling or incineration) that are instead recycled, composted, or re-used.

Drum Separator is a mechanical separation device that utilizes a vacuum to separate three-dimensional containers from waste streams.

Eddy Current Separator segregates non-ferrous metals (aluminum cans) from other metals using a magnetic field and high frequency polar wheel.

Environmentally Preferable Purchasing Policy (EPPP) means products or services that have a lesser or reduced potentially negative effect on human health and the environment when compared with competing products that serve the same purpose. This comparison may consider raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance, or disposal of the product.

Floor Sort involves separating materials on the tipping floor and manually removing bulky non-recyclable materials

Indirect Emissions are typically used to describe emissions associated with purchased electricity, heating or cooling systems. The point of emissions are not located within the operational boundary of the reporter, but are as a result of the reporters operations.

Landfill is a method of solid waste disposal in which waste is buried between layers of dirt so as to fill in or reclaim low-lying ground.

Municipal Solid Waste (MSW) is more commonly known as garbage and consists of everyday items we use and then throw away. These materials are generated by individuals as well as both private and commercial businesses.

Material Recovery Facility (MRF) is a specialized facility that receives, separates and prepares recyclable materials for marketing to end-user manufacturers.

Multi-family Dwelling (MFD) is a classification of housing where multiple separate housing units for residential inhabitants are contained within one building or several buildings within one complex.

Newsprint Screen separates old newsprint from mixed paper and rigid containers by using patented in-line, tri-shaped rubber discs that impart a wavelike action into the material stream, liberating containers and smaller fiber from the old newsprint, which is conveyed forward while the other objects fall through the screen opening.

Nihot Recycling Technology uses controlled air to efficiently and reliably separate waste by its density characteristics. The Nihot Single Drum Separator consists of a recirculation fan, a separation section with a rotating drum and a connecting expansion chamber. The Nihot Windshifter consists of a recirculation fan, a separation unit and a comb-separator.

Operational Emissions are Greenhouse Gas Emissions associated with fuel, electricity and natural gas use for all operations within an organizations either financial or management control.

Optical Sorting processes specific plastics utilizing infrared technology that detects and identifies polymers moving along the conveyor belt. A quick burst of air is shot at the container and it is dropped into a bunker for eventual baling.

Pre-Sort means manual sorters removing garbage, wood, and yard waste, metals, injection-molded plastics and glass prior to the material stream entering the mechanical portion of the facility thereby increasing the total system throughput, improving the efficiency of machinery separation, and resulting in higher quality output products.

Polishing Screen is a machine designed to create three material fractions: mixed fiber, containers and fines by using the 2-D and 3-D characteristics of these materials. Paper is conveyed over the screening surface, while containers and other three-dimensional objects roll off the back of the screen and are consolidated. The fine materials (bottle caps, dirt, grit and small fiber) fall through the screening surface and are removed in order to reduce product contamination.

Post-Sort consists of quality control stations to reduce potential contaminants before the remaining materials are either sent to the compost facility or baled for shipment to recycling markets.

Single-Family Dwelling (SFD) is defined as a building that is usually occupied by just one household or family, and consists of just one dwelling unit or suite.

Solid Waste Facility Permit (SWFP) is a permit that allows appropriate solid waste facilities to install, establish, construct, modify, and operate waste and recycling processing and transfer facilities in the State of California.

The Climate Registry (TCR) is a nonprofit organization that provides meaningful information to reduce greenhouse gas emissions. The Climate Registry establishes consistent, transparent standards throughout North America for businesses and governments to calculate verify and publicly report their carbon footprints in a single, unified registry.

Trommel Screen is a screened cylinder used to separate materials by size, for example separating the biodegradable fraction from mixed municipal waste or separating different sizes of crushed stone.

Waste Reduction Model (WARM) is used by the EPA to help solid waste planners and organizations track and voluntarily report greenhouse gas (GHG) emissions reductions from several different waste management practices.

Windrow Composting is the production of compost by piling organic matter or biodegradable waste, such as yard trimmings, animal manure and crop residues, in long rows (windrows). These rows are generally turned to improve porosity and oxygen content, mix in or remove moisture, and redistribute cooler and hotter portions of the pile.

Zero Waste is a philosophy that encourages the redesign of resource life cycles so that all products are reused and any waste sent to landfills and/or incinerators is minimal.



1500 Berger Drive
San Jose, CA 95112

408.283.4804

www.greenwaste.com



675 Los Esteros Road
San Jose, CA 95134

408.263.2384

www.zankerrecycling.com



980 State Hwy 25
Gilroy, CA 95020

408.846.1577

www.zankerrecycling.com



1500 Berger Drive
San Jose, CA 95112

408.283.4804

www.zwedc.com