RECYCLING CERTIFICATION INSTITUTE

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GREENWASTE ZANKER RESOURCE RECOVERY FACILITY – SITE 2

CORR PROTOCOL EVALUATION REPORT

June 14, 2024
Evaluation Body: RCI

Executive Summary

This report corresponds to the evaluation of the Application for CORR Certification by Zanker Road Resource Management, LLC (ZRRML), owner and operator of the GreenWaste Zanker Resource Recovery Facility – Site 2 Facility (GWZRRS2 or Site 2) located at 675 Los Esteros Road, San Jose, California, submitted to the Recycling Certification Institute (RCI or Institute). This Evaluation represents an independent review of data and information provided to the Institute. Due diligence was followed to ensure Duty of Care and Duty of Loyalty to the Institute and to manage any Conflict of Interest.

RCI Evaluators Manual 2.0 (EM) and RCI General CORR Protocol 1.9 (GCP) guided the evaluation process per standard practice. There are multiple lines onsite that had previously undergone individual certifications. However, this Evaluation reviews the individual lines operating together as a consolidated processing operation much as RCI has conducted at other similar large operations handling Mixed C&D and Source Separated materials.

RCI uses a 95% confidence level as its Minimum Quality standard when calculating recovery or recycling rates for facilities receiving/processing less than 1,000 tons/day. The evaluation found neither material nor immaterial misstatements nor deviations from the described process train for the operations at the GWZRRS2 operation. The twelve months of recovery and recycling data submitted by GWZRRS2 was within the quantitative materiality threshold of 95% (less than 5% error) per EM Section 2.2.3. The onsite Evaluation was conducted on May 20, 2024.

Overview of GreenWaste Zanker Resource Recovery Facility-Site 2 Operations

Zanker Road Resource Management, LLC. (ZRRML) currently owns and operates the GreenWaste Zanker Resource Recovery Facility – Site 2, located at 675 Los Esteros Road, San Jose, California. The Facility has operated as a resource recovery facility and disposal site since 1997 under various Planned Development Permits issued by the City of San Jose Planning Department, a Solid Waste Facilities Permit (SWFP) issued by the City of San Jose Local Enforcement Agency (LEA), the California Integrated Waste Management Board (CIWMB, now CalRecycle), Waste Discharge Requirements (WDRs) issued by the San Francisco Regional Water Quality Control Board (RWQCB), and various Permits to Operate (PTO) issued by the Bay Area Air Quality Management Board (BAAQMD). GWZRRS2 is a fully permitted solid waste disposal site and a large volume transfer/processing facility (Solid Waste Facility Permit Number 43-AN-0001).

As currently permitted under the SWFP, Site 2 may accept up to 1,800 tons per day (tpd) of materials and a maximum of 350tpd to landfill on-site. Although permitted as a Class III landfill, the Facility is not currently allowed to accept putrescible garbage and solid waste (i.e., wet household garbage), green/yard waste, liquid waste sludge, designated wastes, and hazardous wastes. The primary wastes received at Site 2 include construction and demolition debris, wood waste, mixed debris, and soil generated from

throughout the San Francisco Bay Area. Residuals from the recycling operations are either transported to a nearby landfill or landfilled onsite.

The Facility is open to the public from 6:00 a.m. to 4:45 p.m. Monday through Friday and 8:00 a.m. to 3:45 p.m. on Saturdays. The site is closed on Sundays and major holidays.

There are multiple resource recovery operations included in this Site 2 Certification, which includes two mixed C&D plants, one source-separated operation, and soil processing. They are, specifically: The Advanced C&D Recycling Plant (955), the Construction and Demolition Processing Plant (970), Sheetrock Processing, and Soil Processing, which are the focus of this Evaluation.

Description of Plants and Process Flow:

Advanced C&D Recycling Plant (955 Plant)

Zanker's Advanced C&D Processing System was commissioned in 2018 and processes C&D and mixed loads. Mixed C&D loads are off-hauled in a specific stockpile area located on the main tipping pad at Site 2. The primary material categories from this line are Aggregates, Wood, Metals, Alternate Daily Cover (ADC), and Landfill. Fiber (cardboard) and paper), Soil and Screen Fines make up an incidental amount of material outbound from this operation.

Process Description:
The material streams are directed to a tipping area adjacent to the 955 stockpiles. After customers have disposed of their load, the materials will be pushed with a wheel loader to a pre-sort excavator. Before loading the shredder, one excavator removes oversized pieces of metal, concrete, and non-recyclable products, such as carpeting and fabric. A second excavator then loads the shredder with the remaining manicured materials at a rate of ~40 tons per hour. These shredded materials will be conveyed to a vibratory screen where the materials will be separated into three fractions, 5” minus, 2D, and 3D materials.

The smaller fraction (5” minus) from the vibratory screen will travel up a conveyer and past a belt magnet to remove the ferrous metals. It will then fall onto a debris roll screen, removing the 2” minus fraction. These 2” minus materials are then conveyed to a trommel screen where the ¼” minus is removed. These materials will fall into a bunker below where the fines will then be marketed to farmers within California as a soil amendment. The larger fraction from the trommel screen is then conveyed to a CP Air Drum Separator which separates the light material from the heavy material. The lighter material will fall off the end of the conveyor belt into a bunker and will be used as ADC. The heavier materials from the air separator consisting of concrete, brick, tile, asphalt, glass, rock, and ceramics will fall into a bunker below the air separator and then are directed to the Zanker Concrete Crushing Operation to be reprocessed and made into a base rock product.

The 2”x5” fraction from the debris roll screen (mainly wood waste and concrete) is then conveyed into a larger Air Separator that divides the material by density. The lighter fraction, wood, insulation, roofing felt, etc. drops on a conveyor and is directed to a bunker and will be used as ADC. The heavier fraction, concrete, rocks, tile, ceramics, bricks, etc., will fall into the bunker below the air separator and be sent to Zanker’s Concrete Crushing Operation to be processed into base rock.

The vibratory screen is 5” into a 2D (two-dimensional) and 3D (three-dimensional) stream of materials. The 2D materials will drop to a transfer conveyor where recoverable materials such as wood, papers, cardboard, etc. can be recovered by sorters. The 3D materials will drop onto another conveyor where it will pass a magnet to remove the ferrous metals then conveyed over a 1” minus vibratory screen to a sort line for manual removal of recyclables such as inerts, wood, cardboard, and plastics.

Recovered materials are weighed and sent to other recyclers for processing. Residuals from the sort line are directed to the on-site landfill or transported to a nearby landfill for disposal. All materials processed from the operation are weighed and recorded per RCI requirements.

Scales are located at the facility entrance. Each hauling incoming vehicle drives onto the scales is weighed, and the driver then proceeds to the appropriate location in the facility to empty the vehicle. Photos are taken of the incoming load, driver, and vehicle. These photos are used to verify load types and proper accounting measures.

A load checker confirms the materials as they are deposited in the tipping area. In the event the materials do not match the materials identified on the driver’s tag, the load checker notifies the driver and radios the scale house to correct. A site loader moves the load to the appropriate tipping area and the driver returns to the scales and re-weighs before exiting. The data is automatically entered into the SMS Turbo electronic data management system (EMS) connected to the main office, which is located onsite. The scales are calibrated at least twice per year by Santa Clara County Weights and Measures including each instance of maintenance or other work associated with the scales. Site 2 is open to the public from 6:00 AM to 4:45 PM Monday through Friday and 8:00 AM to 3:45 PM on Saturday and closed on Sundays and major holidays.

<u>Daily Operation Flow:</u>
The Advanced C&D Processing System is planned to operate 6 days per week and process an average of 500 tons per day, or 155,000 tons per year.

ADC is sent to nearby landfills for reuse. Concrete and wood waste removed from the operation is loaded into a trailer, weighed, and directed to the specific recycling operations at Zanker. Some of the cleanest wood waste may be used for mulch production. Trash that is hauled from the operation is weighed and transferred to a nearby landfill. Metals are shipped to local recyclers for processing. Beverage containers, plastics, and OCC are loaded into debris boxes and shipped off-site for reprocessing.

Construction and Demolition Processing (970 Plant)

The Construction and Demolition Plant (C&D Plant) at Site 2 mainly accepts Construction and Demolition debris. These materials are off-loaded in a specific stockpile area located at Site 2. The primary material categories from this line are Concrete/Aggregates, Wood, Metals, Alternate Daily Cover (ADC), and Landfill. Fiber (cardboard and paper), Soil, and Screen Fines make up an incidental amount of material outbound from this operation.

Process Description:
From the unloading area, materials are pushed to one of two excavators near the feed conveyor. Large pieces of metal, concrete, and non-recyclable products, such as carpeting and fabric, are removed with an excavator before loading the in-feed conveyor. The second excavator loads the in-feed conveyor, which transports the materials to the Demo Plant.

The excavator operator then loads the in-feed conveyer that transports the materials into a large screen that removes the 12-inch minus fraction materials.

The larger materials pass over the screen and travel up to the sorting stations, where concrete, metals, and lumber are removed. The remaining material on the sort line is residual, which is directed to a landfill for disposal.

The smaller fraction from the large finger screen (the 12” inch minus materials), travels up a conveyer past a magnet removing ferrous metals and into a debris roll screen which removes the 2” minus fraction. This material is then transported to a Trommel screen to screen the material to a 3/8” minus. The 3/8” minus is marketed as a soil amendment, and the overs from the Trommel are marketed as ADC.

The larger fraction of materials from the debris roll screen, primarily wood waste and concrete, are then conveyed into an air system that separates the material by density.

The heavies (consisting of aggregates) are transferred to a bunker for transfer to Site 1’s concrete recycling plant. The lights (fines, wood, and plastics) are transferred to a manual pick sort line for removal of residuals where the remaining material is stockpiled as ADC.

All materials leaving the C&D Plant are weighed. All wood waste and concrete/aggregates are transferred to Site 1 for further processing at the wood waste recycling plant and concrete recycling plant.

Daily Operation Flow:
The C&D Plant is planned to operate 6 days per week and process an average of 500 tons per day, or 155,000 tons per year.

Sheetrock Processing Area

Contractors and private individuals deliver source-separated Sheetrock to Site 2 with the loads typically being clean materials. Incoming loads composed primarily of sheetrock

are directed to the sheetrock stockpile area for unloading. Sheetrock that is separated out at the other on-site recycling plants is also regularly transferred to the drywall stockpile.

Process Description:
In the recycling process, materials such as wood, metals, and trash are removed via manual ground sorting on-site leaving the sheetrock in smaller piles. These materials are loaded into transfer trucks and sent to a sheetrock recycling operation in the region.

Soil Processing

Site 2 accepts clean soil from the public.

Process Description:
The soil is processed by one of several methods.

An excavator may be used to sort through the soil and remove inert material that may be in the soil, such as concrete and asphalt, and litter. Removed inert material is transferred to Site 1's Concrete Recycling Plant for further recycling. Litter is transferred offsite for disposal.

The soil may be screened through a Grizzly Screen fed via excavator. The Grizzly screen produces two products: a 5" plus overs and a 5" minus soil. The 5" plus overs are transferred to Site 1 for processing at the Concrete Recycling Plant, and the 5" minus are either transferred to Site 1 for further processing via Keestrack screen, used onsite for landfill construction, or transferred offsite to other recycling operations.

Laborers may ground-sort through the soil and remove visible pieces of litter or inert materials, such as concrete and asphalt. Litter is transferred offsite for disposal and Inert materials are transferred to Site 1's Concrete Recycling Plant.

The processed soil may be transferred to Site 1's Soil Processing Plant to be screened via a Keestrack screen, used onsite for construction of the waste management unit, or sent offsite for further recycling applications.

Description of Weight Tag and Ticketing System:

Every truck sent to the tipping area must have a TICKET, which is designated as COMPLETED or OPEN. Trucks with stored tares or small loads where payment is taken can use a Completed Ticket. Otherwise, trucks such as roll-off or those needing a tare weight must have a ticket to take to the dumping area. A ticket printed before closing it out will read 'OPEN TICKET!!!!' across the front and accompanies the truck to the tipping area and is returned to the scale operator once the ticket is completed. The procedures for small loads and loads needing a tare weight, which includes Roll-Off trucks and trailers, is as follows:

Operators enter the truck license plate, type of material, and the gross weight from the appropriate scale. The operator prints 'OPEN TICKET' and informs the customer to

present it to the load checker and to return the ticket to the scale house when they weigh out.

Load checkers examine tickets to ensure proper matching license plate number, the current date, and that the type of material is correct. In the event any information is incorrect, the load checker contacts the scale house immediately for correction. An incorrect date or plate number should be reported to a supervisor, whereas a material type that simply needs adjustment (e.g.: Construction Waste to Mixed Debris) should be called via radio from the load-checker to the scale house operator.

The customer returns to weigh out, presents an OPEN TICKET to the scale house operator. The scale operator finishes the transaction by finalizing payment and issuing the completed version of the same ticket that was started upon entry.

Development of Evaluation Plan

ZRRML initiated the Certification process by first Registering the GreenWaste Zanker Resource Recovery Facility – Site 2 on RCI's Registration webpage: https://www.recyclingcertification.org/registration/. The Registration process requires facilities to submit facility and contact information which provides RCI with a general understanding of the on-site operation(s) and what additional information may be needed in preparation for an Evaluation. A sample of information provided through the Registration process includes:

- Name of the facility
- Street address of the facility (P.O. Box not acceptable)
- Name of the city/state where the facility is located
- Facility type
- Scale(s) certified
- Permits – state/local Registration Number or state/local permit number
- Hours of facility operation
- Current tons of Inbound and Outbound materials
- Name of company contact person, position/title, and contact information
- Website address

Upon ZRRML's completion of the Registration process and in preparation for the Evaluation, RCI requested further documentation as expressed in the CORR guidance documents. RCI also provided an overview of the Evaluation process to aid in the streamlining and completion of activities on the day of the site visit. On-and Offsite review would include:

- Review of recyclables sales records
- Sales contacts to verify facility sales and other off-site movement of materials
- Confirmation of permits
- Verification of use and accuracy of scales including calibration frequency
- Observation and verification of load/material sorting and accuracy

- Interviews with key personnel
- Review of employee training/safety manuals
- Calculation of variance in recovery and recycling rates
- Other materials/documentation that may aid in preparation of a Facility Evaluation Report and Evaluation Opinion.

RCI reviewed twelve prior months' data for Site 2 to determine accuracy of the mass-balance calculations. GWZRRS2 provided data in a format that allowed random sampling and review of all aspects of data including customers, weight tags, days, dates, materials, tons, etc. RCI noted areas of potential risk to follow up on during the site visit.

SITE VISIT

RCI performed an on-site evaluation of the GreenWaste Zanker Resource Recovery Facility – Site 2 on May 24, 2024. Spencer Morgan, General Manager, conducted the tour of the facility, with accompaniment and additional information provided by Kevin Lord, Accounts Manager, and Rafael Perez, Operations Manager. Jerame Renteria, Director of Marketing joined the onsite Evaluation during the administrative and records review portion of the site visit. Mr. Renteria served as GWZRRS2's lead contact throughout the Evaluation process and was responsible for submitting the initial applications and responding to subsequent inquiries as well. Mr. Lord coordinated the data elements of the Evaluation. RCI completed a drive and walk-through of the facility, examining where materials enter, are measured, deposited, processed/sorted, and eventually leave the facility, in verifying information provided in the Application for Certification.

Interviews were conducted of staff associated with the key areas of the operations, particularly those staff who have access authority and responsibility for maintaining, reviewing, and overall integrity of Site 2's data. RCI also reviewed the training logs and procedures to determine if adequate QC existed for those staff with the potential to directly affect the recycling and recovery rates reported by the facility and determined adequate and ongoing training exists in these key positions to maintain QC of processes and data.

Regulatory Compliance Test

GWZRRS2 possesses the necessary permits to operate.

Zanker Road Resource Management, LLC. currently owns and operates the GreenWaste Zanker Resource Recovery Facility (Site 2), located at 675 Los Esteros Road, San Jose, California. The Facility has operated as a resource recovery facility and disposal site since 1997 under various Planned Development Permits issued by the City of San Jose Planning Department, a Solid Waste Facilities Permit (SWFP) issued by the City of San Jose Local Enforcement Agency (LEA), the California Integrated Waste Management Board (CIWMB, now CalRecycle), Waste Discharge Requirements (WDRs) issued by the San Francisco Regional Water Quality Control Board (RWQCB), and various Permits to Operate (PTO) issued by the Bay Area Air Quality Management Board (BAAQMD).

Use of Scales

GWZRRS2 satisfies the requirements for use of scales.

GWZRRS2 meets the scales requirement for Certification, with its scales inspected and certified at least once per year by the local oversight agency, Santa Clara County Weights and Measures. Further review of records indicates GWZRRS2 scales undergo servicing, calibration, and certification at frequencies exceeding this requirement.

Materials In

Scales are located at the entrance to the facility. Each hauling vehicle with a load of materials drives across the scales where it is weighed, and the driver proceeds to the appropriate location in the facility to empty the vehicle. Site 2's load checking program confirms the materials as they are deposited in the tipping area and notifies the driver and scale house if corrections must be made due to a mismatch between the driver's tag and the materials. The driver returns to the scales and re-weighs before exiting. The data is automatically entered into Site 2's electronic data management system (EMS) connected to the main office also onsite.

Materials Out

Many of the vehicles arriving to pick up materials have been weighed previously and their empty tare weights are stored in the EMS. Trucks without stored tare weights drive across the scales for an initial weight. The vehicles are weighed again after loading out and the customer/scale information is automatically entered into the EMS as described above.

Supporting Data for Rate Estimates

GWZRRS2 *maintains required supporting data as required by the EM for recycling and recovery rate estimates.*

Site 2 uses an EMS system and retains hardcopy receipts for incoming and outgoing materials/markets. Site 2 provided twelve months of electronic reports with load-level data for RCI rate recovery calculation accuracy and mass-balance analysis. The data included information on customers, weight tags, dates, materials, tons, etc. Random samples were selected to substantiate and crosscheck entries in the electronic reports with hard copies to ensure accuracy. RCI reviewed digital weight tags from the EMS source to verify the accuracy of Site 2's reporting as well as the process for any subsequent adjustments. Mr. Lord explained how reports are generated, and from those reports, how the data is entered into RCI's monthly reporting system. Mr. Lord also provided a copy of Site 2's reporting procedure to ensure continuity of accurate reporting.

Data Transcription and Management

Sufficient QC exists for creation of reuse and recycling rate tables from EMS data.

RCI discussed Site 2 reporting and the EMS with Mr. Lord, who explained the generation of reports as well as supporting mass balance spreadsheets. Material data is

automatically entered into the system for accounting purposes. These reports are reviewed to verify accuracy as well as manually enter and/or correct any manual adjustments as determined through the normal course of business.

The spreadsheets are reviewed for a final crosscheck before uploading to RCI's monthly reporting system. RCI also reviewed the written procedures against the observed processes as well as various phases where data is generated and recorded. Based on the critical need for accurate monthly spreadsheets for internal and customer accounting, observed competencies, as well as ongoing training of the individuals involved in data entry, RCI concludes that sufficient QC exists for data transcription and management per the EM.

Individuals Properly Trained for Functions They Perform

GWZRRS2 employees receive adequate in-house initial and recurring training.

Staff training generally emphasizes on-the-job training under the supervision of Facility employees experienced in the skills and knowledge required. Potential hazards and safety procedures are stressed. Training includes hazardous materials recognition and screening and heavy equipment operations, with emphasis on safety, health, environmental controls, and emergency procedures (in accordance with 27 CCR 20610). Records of the training are included in the operating record. Sufficient personnel are trained in each job category to provide necessary backup and standby capability.

Key operating personnel at Site 2 undergo training that includes initial and refresher training in the following areas:

- First aid, health, and cardiopulmonary resuscitation (CPR)
- Hazard recognition and communication
- Hazardous, infectious, and prohibited waste identification and handling procedures:
    - Occupational safety
    - Regulatory compliance
    - Job-specific cross-training
    - Right-to-know training.
    - Environmental controls
    - Spill prevention control and countermeasures plan
    - Stormwater and groundwater monitoring
    - Internal notification and external emergency response

ZRRML employs a full-time Environmental Health and Safety Engineer to specifically address employee and customer safety at its facilities. As per OSHA and CalRecycle regulations, training logs and safety records are maintained in the office and can be reviewed upon request. Site 2 requires a full complement of training and testing for all

employees working at the facility. Training and testing occur regularly, and inspections occur on a weekly to daily basis. Samples of training/testing modules include:

- PPE Basic Training
- Confined Space
- Storm Water Pollution Prevention Plan
- Machine Safety Basic Maintenance
- Lock Out/Tag Out
- Fall Protection
- Fire Extinguisher
- Heat Stress
- Fatigue in the Workplace
- Various other personal safety, fire, hazard identification, and communication training. Log sheets are created for each training course, and most are maintained for at least three years or longer if the staff remains employed at GreenWaste Zanker Resource Recovery.

RCI reviewed the training schedules and modules/materials as well as conducted interviews with key employees during the site visit. RCI observed employees in the scale house and designated tipping areas at Site 2. Materials were properly categorized and directed, and the load checker-maintained contact with vehicle drivers and the scale house as appropriate. Employees were observed utilizing proper safety equipment and appropriate signage was posted in numerous worker locations as required by Cal/OSHA.

Based on the observations of staff and work areas, the initial and ongoing training of Site 2 employees, and a review of the training modules and logs, RCI concludes that ZRRML provides employees at Site 2 with the requisite training per the EM.

Performance Standard Test

Reported reuse and recycling rates are within the 5% allowed threshold.

RCI requested electronic copies of mass balance spreadsheets for review and analysis before scheduling a site visit at GWZRRS2. RCI initiated its review noting areas requiring clarification or correction. Several phone and Zoom meetings were conducted to review RCI's questions related to the twelve-month mass-balance and monthly entries, as well as to discuss how GWZRRS2 selected and uploaded information into RCI's web-based reporting system. Formulas and material codes were inspected, and their validity tested, with potential areas of risk identified for review during the site visit. The recycling and recovery rates information submitted by GWZRRS2 fell within the five-percent tolerance threshold defined per the EM for facilities receiving/processing less than 1,000 tpd. RCI concludes that GWZRRS2's reported reuse and recycling rates satisfy the Performance Standard Test required per the EM.

Evaluation Statement Overview

Based on an extensive review of data from GreenWaste/Zanker Resource Recovery's Site 2 operations, the findings according to RCI protocols via the evaluation process, and the on-site visit and interviews with key staff, RCI finds that GWZRRS2 meets RCI's eligibility requirements, complies with all measurement and record-keeping requirements, and has no existing material or significant immaterial non-conformances or misstatements in their reported data. RCI hereby certifies the Reuse and Recycling rates submitted by GWZRRS2 as Real Rates as outlined in the EM per RCI CORR protocol.

The undersigned hereby certify that the information provided herein is true, complete, and accurate; they have read and understand the protocols developed by RCI and are familiar with the requirements of RCI. Furthermore, they also certify that any signatories duly elected, qualified, and acting officers of their respective organizations and that their organizations agree to be bound to the protocols of RCI.

For Recycling Certification Institute:

By

Stephen M Bantillo
Print Name

Executive Director
Title

June 14, 2024
Date

For GreenWaste Zanker Resource Recovery -- Site1:

By

Director of Marketing
Title

Jerame Renteria
Print Name

June 27, 2024
Date