



# RECYCLING CERTIFICATION INSTITUTE



**BEE GREEN**  
— RECYCLING & SUPPLY —

**BEE GREEN RECYCLING & SUPPLY**  
725 INDEPENDENT ROAD  
OAKLAND, CA 94621

## CORR PROTOCOL EVALUATION REPORT

**R3** CONSULTING GROUP, INC.  
RESOURCES • RESPECT • RESPONSIBILITY



**September 5, 2018**

**Evaluation Body: R3 Consulting Group**

## **Executive Summary**

This report corresponds to the evaluation of the application for CORR Certification submitted to the Recycling Certification Institute by Bee Green Recycling & Supply (Bee Green) located at 725 Independent Road in Oakland, California 94621. Bee Green Recycling & Supply is a large volume transfer/processing facility that is owned and operated by Bee Green Recycle Company.

This evaluation was conducted by R3 Consulting Group, Inc. (R3) which is a certified evaluating body of RCI and 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 potential Conflict of Interest. The RCI Evaluators Manual and RCI General CORR Protocol were used to guide the evaluation process, as is standard practice for all evaluations.

RCI utilizes a 95% confidence level as its Minimum Quality standard when calculating recovery or recycling rates using the weights of materials recovered and recycled. The evaluation found neither material or immaterial misstatements nor deviations from the described process train for the operations at the Bee Green Recycling & Supply, and the annual recovery and recycling data submitted by Bee Green was within the quantitative materiality threshold of 95% allowed.

## **Overview of the Bee Green Recycling & Supply and Operations**

Bee Green Recycling & Supply (Bee Green) is a large volume transfer/processing facility located at 725 Independent Road in Oakland, California 94621. The California Code of Regulations, Title 14 (14 CCR), Section 17402 (a)(8) defines a large volume transfer/processing facility as “a facility that receives 100 tons or more of solid waste per operating day for the purpose of storing, handling, or processing the waste prior to transferring the waste to another solid waste operation or facility. Bee Green’s facility operations currently include acceptance of construction and demolition wastes, which include mixed C&D, cardboard and paper, carpet, padding and foam, ceiling tiles, concrete, asphalt, stone, and porcelain, dirty/clean fill, drywall/gypsum, green waste (yard/landscape), metals, plastics, roofing material, wood, screen fines, and alternative daily cover (ADC).

Bee Green collects materials from collection companies as well as the general public, and measures the weight of the material(s) via truck scale upon entrance into the facility yard. The scale is a CMI Pitsaver 3 (70-foot scale with a capacity rating of 100,000 pounds). The weighmaster license (No. 012586) issued by the Department of Food and Agriculture expires May 1, 2019 and lists twenty-one (21) Deputy Weighmaster(s).

Bee Green is permitted under the Alameda County Department of Environmental Health Office of Solid/Medical Waste Management Solid Waste Facility Permit No. 01-AA-0302. The facility is permitted to operate as a Transfer/Processing Facility (MRF) seven (7) days a week between the hours of 2am – 11:59pm. The facility is allowed to receive materials

between 6:00am to 6:00pm (Monday – Friday) and between 7:30am to 4:30pm (Saturday). Bee Green is permitted a maximum tonnage of 360 tons per day and a maximum traffic volume of 295 vehicles per day through the gate. All tipping, sorting, and processing must be performed within the 1.1 acres of permitted area.

### **Mixed C&D and Source Separated**

Bee Green is permitted to accept commingled loads of construction and demolition debris. Bee Green does not accept material from outside of California but does receive materials from outside of the City of Oakland (staff estimated that ~83% of material originates in Oakland). As customer vehicles enter the facility, they drive up to the scale and wait for the scalehouse attendant to direct them onto the scale. The customer provides the type of material and the scalehouse attendant visually inspects the load to confirm stated materials. Additionally, the waste classification, county of origin, company name, time, and license plate number (and the license plate of the trailer, if applicable) are recorded. The driver is directed to the tipping area by floor personnel and dumps the load. Once the driver dumps the load, the (floor personnel) Sorters begin separating the material(s). Drivers with stored vehicle tare weights are charged up front, while drivers without stored vehicle tare weights are directed back to the scale with an empty vehicle to receive a weigh-out ticket before exiting the facility.

Source separated materials are directed to the bunkers in which they will be placed, and mixed C&D loads are dumped in the center of the site to be separated by Sorters. Loads are negatively picked and the remaining non-recyclable materials are directed to the pile defined as trash/residual. There are four (4) fire hoses strategically placed within the site to ensure that every inch of the site can be sprayed if needed; these hoses are primarily used to spray material piles as needed as a means for dust control but are available for emergencies (fire) as well.

**Aggregate** Collected and stored in a bunker until material is loaded into a tractor trailer for transfer to destination facility. Consists of concrete, asphalt, and dirt/soil.

**Cardboard & Plastic** Clean cardboard and plastics are collected and stored in a 40-yard shipping container until the material is collected by a third-party vendor.

**Drywall** Clean drywall is collected and stored in a bunker until the material is loaded into a transfer vehicle for delivery to a third-party facility.

**Foam Pads** Collected and stored in a bunker until material is picked up by a third-party vendor.

**Green Waste** If commingled with construction material, green waste is pushed into ADC Feedstock pile. If source separated green waste enters the facility, the customer is redirected to the sister facility located at 740 Julie Ann Way in Oakland, CA 94621.

**Mattresses and Box Springs** Collected and stored near the entrance to the facility (on the right side, if entering). Mattresses and box springs will be processed into base components and separated into the respective material piles (wood, metal, foam pads, and textiles).

**Precious Metals** are collected, sorted, and stored in multiple bins (one 20-yard bin, and various 5-yard bins; all painted red) until the material is picked up by a third-party vendor.

**Mixed C&D** Mixed C&D loads are dumped into a reserved area in the middle of the tipping floor to allow for optimal visual inspection. Sorters then separate the material and relocate to their respective bunkers. Any material that is not recyclable is relocated to the Trash/Residual pile.

**Refrigeration Units** Collected and stored in a designated area along the wall facing the scale exit (marked with a yellow-painted outline). Units are not broken down into metal components regardless of whether or not the unit contains refrigerant. Units containing refrigerant are stored until collected by a third-party vendor. Units not containing refrigerant are placed into the metal bin(s) with the other scrap metal.

**Scrap Metal** Collected and stored in a 30-yard bin. Material is packed using an excavator and is picked up by a third-party vendor.

**Wood** Clean wood is collected and stored in a pile along the tipping floor until the material is processed through the shredder. Floor personnel strip wood of anything that may cause an issue for the shredder. Treated wood is not accepted by the facility, but any treated wood found mixed within loads is separated and stored in a 20-yard bin until transferred to a landfill.

**Residuals** Residual debris is collected on the tipping floor in the far corner of the facility and is delivered via transfer truck to a landfill for disposal.

Bee Green does not accept hazardous materials however hazardous materials are sometimes found within loads that are deposited onto the tipping floor. When hazardous materials are discovered, they are removed from the pile and relocated to a storage bin where they are separated by material type. All discovered hazardous materials are documented and if necessary, reported to the Local Enforcement Agency (LEA). Bee Green is permitted (PT0315266 and PT0315267) to handle hazardous waste materials through the Alameda County Department of Environmental Health; the permit(s) expire June 30, 2019. All handling and processing procedures are dictated in Bee Green's Hazardous Materials Business Plan (HMBP).

## Development of Evaluation Plan

Bee Green Recycling & Supply initiated the Certification process by first Registering its Mixed C&D Line on RCI's Registration webpage: <https://www.recyclingcertification.org/registration/> and subsequently submitted an Application for Certification. The application included monthly and annually detailed and summarized tonnage reports, lists of markets (material recipients and their contact info), and a variety of other background documents. Other information provided through the intake 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 (required)
- 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, their position/title, and contact information
- Website address

RCI conducted an interview with Joshua Fookes (President), regarding submittal of documents that would be used in preparation for the Evaluation. Mr. Fookes also initiated the certification application process. Key elements of this information can be found in the CORR Protocols Edition 1.9, Appendices A and B, viewable on the RCI website Resources page. 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-site review included:

- Tour of the facility
- Verify process train of materials as stated in Application for Certification
- Verify proper sorting and storage of the materials
- Verify use and calibration frequency of certified scales
- Observe and verify weighing of materials and electronic storage of information
- Observe and verify load/material sorting and accuracy
- Observe and verify QC measures are in place to ensure accuracy in recovery and uploading of facility data
- Review of recyclables sales records
- Confirmation of permits
- 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

Bee Green Recycling & Supply submitted twelve prior months' data for RCI's review to determine accuracy of the mass-balance calculations. The facility provided excel spreadsheets derived from exported data from their SMS Turbo software. The spreadsheets allowed for calculations and data review as well as random sampling of weight tickets to test for accuracy.

## **SITE VISIT**

R3 Consulting Group, Inc., a certified RCI evaluating body, performed an onsite evaluation of the Bee Green Recycling & Supply. Anthony Smith (Compliance Manager) served as lead contact for the facility throughout the evaluation process and conducted the facility tour during the onsite evaluation. R3 observed all operations and processes during a full walk-through of the facility, examining where materials enter, where they are weighed, deposited, sorted/processed, and ultimately exit the facility.

The onsite review included follow-up questions from the initial review of data, visual inspection of all necessary permits/certifications, interviews with key personnel (those that are vital to the integrity of material processing and recording), review of documentation

processes, and the flow of materials. R3 also reviewed the facility's Injury and Illness Prevention Program and safety training program and materials.

All operations and processes for the facility are handled onsite, except for billing, employee file management, and other administrative responsibilities which are handled at their corporate office at 725 Julie Ann Way in Oakland, California 94621.

## **Regulatory Compliance Test**

*Bee Green Recycling & Supply possesses the necessary permits to operate.*

The Bee Green Recycling & Supply has operated as a resource recovery facility under the current permit since 2016. R3 conducted a review of correspondence between Bee Green and the Local Enforcement Agency (County of Alameda) between January 2018 and May 2018.

R3 reviewed the inspection/compliance records and while there were a few areas of concern noted, they were being addressed by Bee Green and were determined to be immaterial to these findings.

Note: Operator stated during R3's onsite evaluation that the Permit Revision application was still being reviewed by the LEA.

## **Use of Scales**

*R3 Consulting Group, Inc. concludes that the Bee Green Recycling & Supply satisfies the requirements for use of scales.*

The scalehouse is equipped with one scale that is utilized for both, inbound and outbound weighing. All transactions through the scalehouse are managed and maintained in the facility's scale operating software system, SMS Turbo. The scale is operated only by those employees certified as Deputy Weighmasters.

Bee Green uses a 50-ton capacity CMI Pitsaver 3 scale system. The scale is calibrated periodically, with the last calibration occurring August 10, 2018 by Quality Scales Unlimited out of Byron, California. The scale is inspected at least annually by the Alameda County Department of Weights and Measures with the last inspection occurring August 10, 2018 according to the affixed seal.

All materials that pass over the scale are electronically recorded. Bee Green implements a quality control measure by eliminating edits to weight tags. Any weight tag that requires an edit is voided and a replacement tag is created with the original tag number tied to it, as well as an added note depicting the reason for the void.

## **Materials In**

Information gathered on incoming material contains:

1. Customer Name
2. Origin City/County
3. Scale Ticket Number
4. Job Number (Site/LEED ID)
5. License Plate Number for Vehicle and/or Trailer
6. Date In
7. Inbound Material Type
8. Gross Weight

#### Materials Out

1. Destination Facility
2. Scale Ticket Number
3. Truck Number
4. Date Out
5. Outbound Material Type
6. Gross Weight, as applicable

#### All Inbound and Outbound Data

All inbound and outbound data is entered into the facility's scalehouse software (SMS Turbo) for purposes of tracking, reporting, and data collecting.

### **Supporting Data for Rate Estimates**

*R3 Consulting Group, Inc. concludes Bee Green Recycling & Supply maintains required supporting data as required for recycling and recovery rate estimates.*

Bee Green provided twelve (12) months of electronic reports for inspection. R3 randomly selected transaction records for sampling to substantiate the inbound and outbound tonnage entries to ensure accuracy. No tonnage accounting issues were found in the sample.

### **Data Transcription and Management**

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

R3 interviewed Bee Green's Compliance Manager (Anthony Smith) regarding their electronic data collection and report generation practices. Material data in the SMS Turbo software and information is queried for reporting purposes. The reporting information is entered into the "Load Logs" and "Tonnage Logs" Excel spreadsheets. These reports are reviewed to ensure accuracy.

The generated spreadsheets are created and reviewed by Mr. Smith, comparing the daily totals against the total(s) for the month to ensure accuracy. Tonnage totals are also verified against billing records prior to submittal to RCI. R3 verified Bee Green's

procedures, observed the process from beginning to end, and reviewed data correction practices. R3 concludes that sufficient QC exists for the data gathering, management, and reporting practices of Bee Green.

### **Individuals Properly Trained for Functions They Perform**

*Bee Green Recycling & Supply employees receive adequate in-house initial and recurring training, including training from outside sources.*

R3 reviewed the facility IIPP, training materials, and training schedule as well as conducted interviews with personnel key to safety during the onsite evaluation.

Initial training consists of a complete review and subsequent test on the company IIPP, as well as safety tests of the site-specific safety measures and policies. Records documenting employee training are maintained indefinitely.

Bee Green conducts monthly safety training on the topics of health and safety, identification and evaluation of hazards, accident investigation and reporting procedures, drug and alcohol awareness, Lock-Out/Tag-Out (LOTO), and the emergency action plan. Each monthly meeting has an accompanying agenda that covers all of the above topics, plus accident/injuries that occurred over the previous quarter and other information that the Compliance Manager adds, as warranted.

During each meeting, a sign-in sheet is distributed and signed by all employees in attendance. If an employee is off duty during a monthly safety meeting he/she must check in with the Compliance Manager and review the meeting items covered before resuming job duties.

R3 observed Bee Green employees in proper PPE at all times during the onsite evaluation. Based on observation of the operation, R3 concludes that Bee Green provides employees with adequate and appropriate training.

### **Performance Standard Test**

*Reported recovery and recycling rates are within 5% allowed threshold.*

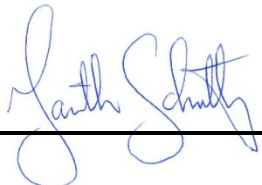
RCI requested electronic copies of mass balance spreadsheets from Bee Green prior to scheduling an onsite evaluation. The submitted files were reviewed and areas requiring further clarification were noted. Bee Green's President (Joshua Fookes) responded to all inquiries regarding questions concerning mass-balance reporting. Formulas were reviewed, and their validity tested and select transactions were identified for further review during the site visit. All materials are weighed upon exiting the facility. R3 concludes that the 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 the Bee Green Recycling & Supply's Mixed C&D Processing operation, the onsite observation and interview of key staff, R3 finds that the Bee Green Recycling & Supply operation meets RCI's eligibility requirements. R3 also found Bee Green to be in compliance with all measurement and record keeping requirements and has no existing material or significant immaterial nonconformance or misstatements in its reported data. R3 hereby certifies the Recovery and Recycling rates submitted by the Bee Green Recycling & Supply 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 (Evaluator Company):

 _____ By	_____ By
Garth Schultz _____ Print Name	_____ Print Name
Principal and Lead RCI Evaluator _____ Title	_____ Title
10/02/2018 _____ Date	_____ Date

For (Company/Facility Name)

 _____ By	Compliance Manager _____ Title
Anthony Smith _____ Print Name	10/03/2018 _____ Date