



RECYCLING CERTIFICATION INSTITUTE



CORR PROTOCOL EVALUATION REPORT

van der Linde Recycling
73 Hunters Branch Road
Troy, VA 22974

Evaluating Body:
Environmental Service Management Group, Inc.
Date Performed: 10.05.22
Evaluator: Michael D. Buono



Executive Summary

This report corresponds to the evaluation of the application for CORR Certification submitted to the Recycling Certification Institute (RCI) by van der Linde Recycling located at 73 Hunters Branch Road in Troy, Virginia.

This evaluation was conducted by Environmental Service Management Group, Inc. (ESMG) 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 Conflict of Interest. RCI Evaluators Manual 2.0 (EM) and RCI General CORR Protocol 1.9 (GCP) were used to guide the evaluation process as is standard practice for all Evaluations.

The evaluation found neither material or immaterial misstatements nor deviations from the described process train for the operations at the van der Linde Recycling facility. RCI uses a 95% confidence level as its Minimum Quality standard when calculating recovery or recycling rates using the weights of materials recovered and recycled. The twelve months of recovery and recycling data submitted was within the quantitative materiality threshold of 95% (less than 5% error) per EM Section 2.2.3.

Overview of the van der Linde Recycling Facility and Operations

van der Linde Recycling operates at 73 Hunters Branch Road in Troy, Virginia. A licensed C&D recycling facility since 2008 with significant improvements completed in 2021. The facility has been operational under permits (PBR 531) issued by Commonwealth of Virginia and the Virginia Department of Environmental Quality (VA DEQ).

As permitted under the current VA DEQ guidelines, van der Linde Recycling is permitted to accept up to approximately 500 tons of non-putrescible waste per day. The facility accepts commingled recyclable materials (ex. clean cardboard and paper normally found within the waste stream) and construction & demolition debris resulting from projects throughout Fluvanna County and the surrounding Piedmont region. The primary received materials includes basic C&D, concrete, metal, dirt, wood, and gypsum, as well as carpeting, ceiling tiles, roofing and other materials.

van der Linde Recycling operates 6 days per week (Mon-Sat) from 6am to 5pm (12pm on Saturdays,) processing an average of 200-300 tons per day / 5,200-7,800 tons per month.

Mixed C&D Sorting and Processing

At the beginning of the van der Linde C&D recovery process, receiving attendants assess every load. The scale operator is notified of items that are not permitted and/or items that will incur additional charges. They also direct operators to push large bulk items such as

oversized concrete, white goods, and bulk wire off to the side, as they inhibit the performance of machinery.

The floor team hand-picks items that need special care such as fluorescent bulbs and propane tanks. The excavator operator pulls from the pile and loads the first of two finger screens that start the separation process. The screen moves larger material down the line to the apron conveyor and onto the A line. The smaller material drops down onto a cross conveyor and goes under an electromagnet where smaller ferrous metals are removed. The material then travels via the trammel feed conveyor to the trammel, which removes fines.

The remaining material drops from the trammel to the B line where it is picked by hand to remove wood, metal and plastic. The material then enters the “destoner” where light material such as film gets blown off into a residual pile. The heavy material, such as concrete, brick and block, goes over to the “rock line” where anything that is not a rock or a stone is removed and sorted, allowing the clean rock to flow through and drop into a bunker.

Back on the A line, the majority of the recovery process happens. The sorting team identifies and segregates material such as plastic, wood, metal, cardboard and wire. Any material not recovered on the A line falls off the end and gets pushed into the residual pile, which goes to the landfill. Additional recovery efforts are performed to ensure that this pile is as small as possible.

Development of Evaluation Plan

The van der Linde Recycling facility initiated the certification process by registering at <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
- Facility address
- City/state where the facility is located
- Facility type
- Scale(s) certified (required)
- Permits – state/local registration/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

ESMG conducted an interview with Andrea C. Johnson regarding submittal of documents that would be used in preparation for the Evaluation. 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. ESGM 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 would include:

- 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
- Observation and verification of 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.

The van der Linde Recycling facility submitted data from June of 2021 to May of 2022 for ESGM's review to determine accuracy of the mass-balance calculations. The facility provided spreadsheets derived from their software that allowed for calculations and data review as well as determination of random sampling to occur during the site visit including weight tags, dates, materials, tons, etc.

Site Visit 10.05.2022

ESMG, Inc., a certified RCI evaluating body, performed an on-site evaluation of the van der Linde Recycling facility. Andrea C. Johnson served as lead contact for the facility throughout the evaluation process. Andrea was responsible for submitting the initial Application for Certification and responding to subsequent inquiries as well as owner Peter van der Linde. Andrea C. Johnson conducted the tour of the facility. ESGM, Inc., conducted a full walk-through of the facility, examining where materials enter, where they are measured, deposited, processed/sorted, and eventually leave the facility.

The review included follow-up questions from the initial data review. Interviews of staff associated with the key areas of the operations, in particular, those staff who have access authority and responsibility for maintaining, reviewing, and overall integrity of the van der Linde Recycling facility data, were conducted. ESGM also reviewed the facility training materials 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

The van der Linde Recycling facility possesses the necessary permits to operate.

The van der Linde Recycling facility has operated as a resource recovery facility since 2008 with significant improvements completed in 2021. It operates under the required permits (PBR 531) issued by the Commonwealth of Virginia. There have been no communications from regulatory agencies in the past twelve months regarding noncompliance with permitted operations or other regulations governing the operations of this facility. No irregularities were found involving management or employees who have a significant role in internal controls, or that could have a material effect on the reporting of the van der Linde Recycling facility recycling rates.

Use of Scales

ESMG concludes that this facility satisfies the requirements for use of scales.

The scale house is equipped with one truck scale. All inbound and outbound transactions are tracked through the van der Linde Recycling facility's scale operating system and managed by trained weight masters as verified by ESGM, Inc.

van der Linde Recycling uses one 60-ton capacity truck scale to weigh all inbound and outbound materials. The facility complies with requirements established by the Office of Weights and Measures of Virginia based in Richmond and is required to maintain scales. They are maintained and calibrated twice per year through Carlton Scales of Henrico VA.

All inbound and outbound materials cross the scale and measurement values are both manually and electronically recorded. This method provides verification at the end of each day for accurate reporting.

Materials In

Information gathered on incoming material consists of:

1. Customer name
2. County of origin
3. Scale ticket number
4. Description of vehicle
5. Scale attendant
6. Inbound material type
7. Date in
8. Gross Weight

Materials Out

Information collected on outgoing trucks consists of:

1. Time out
2. Tare Weight
3. Tons

For outbound materials, much of the same information is compiled but listed here below for transparency:

1. Code assigned to each destination
2. Truck information
3. Commodity
4. Customer name
5. Date and time out
6. Ticket number
7. Gross weight
8. Tare weight
9. Total tons

All Inbound and Outbound data is entered into van der Linde Recycling' software system for purposes of reporting and data collection.

Outbound Materials and Markets

van der Linde Recycling has provided ESGM with the following list of materials/end markets:

Contamination free **cardboard** is transferred to a Virginia paper mill or to a local facility specializing in the resale of paper products.

Wood is mulched and sold on-site and is also chipped and sent to markets in Gladstone and Covington. A portion of the commodity is used as boiler fuel at a facility in West-point.

Plastic is baled and sold to a recycling company where it is processed and sold to a facility in Troy, Alabama. **PVC** is sold to a company in OH where it is made into architectural products and sold in the US.

Drywall and **shingles** are ground on-site and sold for soil amendment and dust control.

Recovered **metal** is sent to a recycling company in Harrisonburg, VA.

Concrete, soil, and other **aggregates** are ground on-site and used as gravel.

C&D residual waste and fines are transferred to 623 Landfill in Rockville, VA which is managed by Republic Services.

Supporting Data for Rate Estimates

ESMG, Inc. concludes van der Linde Recycling maintains required supporting data as required for recycling and recovery rate estimates.

van der Linde Recycling provided twelve months of reports for inspection, ranging from June 2021 to May 2022. ESGM randomly chose records for sampling to cross-check entries in the electronic reports to ensure accuracy. A sample of outbound loads was selected to further confirm the disposition of materials recorded as having left the facility.

Data Transcription and Management

Sufficient QC exists for creation of reuse and recycling rate tables from van der Linde Recycling's software.

ESMG, Inc. interviewed van der Linde Recycling employee Andrea C. Johnson regarding their electronic data collection and the generation of all reports as well as supporting mass balance spreadsheets. Material data is manually entered into the system for accounting purposes. These reports are periodically reviewed to verify accuracy.

The spreadsheets are generated and reviewed before submittal (uploading) to the evaluator. Based on the critical need for accurate monthly spreadsheets for internal and customer accounting, van der Linde Recycling' verified procedure, observed competencies, as well as ongoing training of the individuals involved in the data entry, and final cross-check, ESGM concludes that sufficient QC exists for data transcription and management per the EM 4.7.

Individuals Properly Trained for Functions They Perform

van der Linde Recycling employees receive adequate in-house initial orientation as well as recurring training, including training from outside sources when necessary.

ESMG, Inc. reviewed the training schedules and guidelines as well as conducted interviews with key employees during the site visit. van der Linde Recycling conducts training for employees involved in safety, vehicle operation, load-checking, sorting, and inspection.

Initial or new hire training is performed for all incoming employees. Additionally, annual safety training is done, focusing on proper lifting/lowering techniques, slip/fall prevention, defensive driving training as well as space and visibility training.

Daily safety meetings focusing on current commodity trends, and possible hazards. Daily observations performed by operations staff and safety team to ensure training is being applied. Follow up training performed for all warnings and violations given.

van der Linde Recycling' safety manual and education follows all OSHA regulations. All training certifications, logs, and safety records are stored on-site for immediate review.

Training records identify all key information on employees' training including documentation by the trainer of successful completion. ESMG, Inc. observed these employees in the scale house and designated tipping and sorting areas. Employees were observed utilizing proper safety equipment and clear signage was posted.

Based on the observations of staff, the work areas, and the initial and ongoing training of van der Linde Recycling employees, ESMG concludes that the facility provides employees with the requisite training.

With regard to the ongoing COVID-19 public health emergency, ESMG found van der Linde Recycling to be in accordance with guidelines established by OSHA and the Commonwealth of Virginia.

The following safety protocols are strictly adhered to at the facility:

- Each and every machine is cleaned by operator before and after every shift.
- Sanitizer stations have been placed throughout the facility.
- Masks are required at all times for anyone unvaccinated.

Performance Standard Test

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

ESMG requested electronic copies of mass balance spreadsheets for van der Linde Recycling before scheduling a site visit. Formulas were reviewed by ESMG and their validity tested. Select transactions were identified for further review during the site visit. The recycling and recovery rates information submitted by van der Linde Recycling fell within the 5% tolerance threshold defined per the EM. ESMG concludes that van der Linde Recycling' reported reuse and recycling rates satisfy the Performance Standard Test required per the EM.

Evaluation Statement Overview

ESMG finds that the van der Linde Recycling facility's operation meets RCI's eligibility requirements, based on the following factors:

- Review of the data from the van der Linde Recycling facility operations.
- Findings according to RCI protocols via the evaluation process.

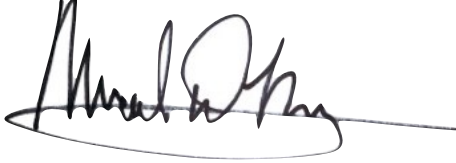
- On-site visit and interviews with staff.

It is in compliance with all measurement and record-keeping requirements and has no existing material or significant immaterial nonconformance or misstatements in its reported data.

ESMG hereby recommends that the recovery and recycling rates submitted by the van der Linde Recycling facility be certified 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 ESGM:



By	By
Michael D. Buono	
Print Name	Print Name
Certified RCI Evaluator	
Title	Title
10/21/2022	
Date	Date

For van der Linde Recycling



By	CEO
Andrea Johnson	
Print Name	Date
	October 26, 2022