

27 February 2023

Adam Toth  
Green Prairie Environmental Ltd.  
111 Pinehouse Drive  
Saskatoon, Saskatchewan  
S7K 5W1

**RE: Rural Municipality of Corman Park Discretionary Use Application**

Dear Mr. Toth,

Please see below the required information to support the Green Prairie Environmental (GPE) Discretionary Use Application.

## 1. Traffic Volumes

Anticipated truck traffic volume associated with the facility is expected to be 20 incoming and 20 outgoing trucks per day during peak season (June, July and August), and 10 incoming and 10 outgoing trucks per day during the remainder of the year per day. Noise generated on a typical operating day is not expected to be significantly greater than the other industrial and farming activities on this property.

## 2. Lighting and Signage

The proposed parcel is situated at NW-20-35-05-W3M on the south side of Baker Road, where the Green Prairie South Saskatoon Landfill is currently operating. The following signage is currently posted at the site:

- One sign located at the Site's entrance, with the company name, Site Manager's phone number and the hours of operation.
- One sign will be posted on the north side of the main office indicating the Site's safety protocol.
- One sign posted on the north side of the main office noting that all customers must report to the main office.
- Two speed signs located approximately 30 and 600 m south of the Site's entrance, along the main road.
- One sign immediately north of the interim cell indicating the location of the active tipping face.
- One sign posted off the main road approximately 50 m north of the interim cell, indicating personal protective equipment requirements.
- One sign posted southeast of the scale indicating the area for residential waste drop off.
- One sign indicating the location of the scrap metal area.
- One sign posted by the clean wood stockpile area.

- One muster point sign will be posted to the east of the main office (Point A) and the other will be posted by the back office trailer (Point B).
- A no smoking sign will be placed at the main office.

No additional signage will be required for the compost facility. Internal lighting will be required inside the compost facility building.

### 3. Operational Details

The Compost Facility is approved to accept up to 20,000 tonnes of feedstock per annum, consisting primarily of organic waste originating from the City of Saskatoon. The compost facility consists of the enclosed and negatively ventilated receiving building, the aerated composting pad and associated areas for material curing, storage and processing, as well as the equipment required for composting. The active composting process is classified as aerated static pile.

The peak flow capacity of the Compost Facility is 2500 tonnes of feedstock per month, allowing for an additional 50% of material (1250 tonnes) that may be required as bulking agent for the feedstock.

A process flow diagram is seen below in Figure 1. Additional information can be found in **Attachment 1, Facility Operations Plan**.

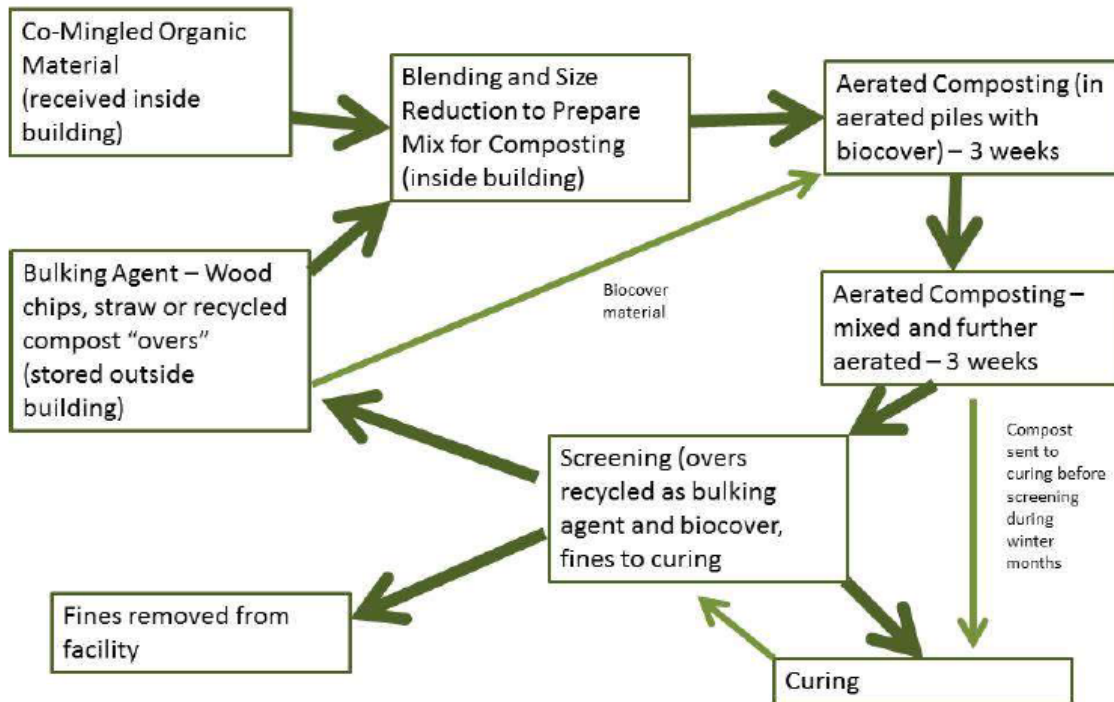


Figure 1 Compost Facility Process Flow Diagram

The composting facility will have two (2) full time employees (FTEs), which will be in operation 365-days a year. During the winter months, from October 15 to April 16, the Site is open to receive feedstock loads from 7:30 a.m. to 5:30 p.m., Monday to Saturday. During non-winter months, the Site is open to receive feedstock loads from 7:00 a.m. to 7:00 p.m., Monday to Saturday. The Site may receive feedstock loads on Sundays by special appointment.

## 4. Nuisance Management

### 4.1 Litter Control

Preventative litter control measures are steps taken to minimize the blowing of litter from the outdoor transportation, processing and storage areas of the compost facility. The following measures are used to control and minimize windblown litter:

- All vehicular traffic transporting waste to and around the site are tarped, if required, to prevent litter from blowing out of the vehicle
- Temporary, moveable litter control fencing may be utilized at the outdoors areas of the site.

Site perimeter maintenance consists of controlling wind-blow litter to prevent it from leaving the site. The following measures are used at the site to achieve this goal:

- Mobile litter fencing is maintained in the vicinity of the active area to trap litter before it reached the perimeter, as required.
- Site personnel gather litter on an as-needed basis, both from the site, and when required from the adjacent lands and roadway.

### 4.2 Dust

Dust management procedures that apply site-wide will apply at the compost facility. Dust generation is common at waste sites due to the handling of materials and the movement of vehicles along gravel and dirt roads. The site is currently bugged by screening berms along the north and east site boundaries. Additionally, berming is to be installed along the west of the sites boundary, prior to commencing operations at the compost facility, to mitigate dust impacts related to composting activities occurring on the west side of the site.

Under normal operating conditions, dust generation is localized and remote from potential receptors. Dust mitigation measures are employed on an as-needed basis and may include the following:

- During dry periods, the speed limit of vehicles operating on-site limited to 15 km/hour
- During dry periods, on-site roadways and surfaces used by refuse trucks may be watered or covered with wood chips.
- On extremely dry and windy days, the wetting of working and stockpiling areas is undertaken.

### 4.3 Noise

Potential noise impacts from the compost facility generally result from operations of the compost screening equipment. Hours of operation of screening equipment and site-wide equipment operations best practices will be deployed at the compost facility to minimize noise impacts.

### 4.4 Odours

The compost facility has a detailed odour management plan in place, see **Attachment 2**.

## 5. Water Source and Uses

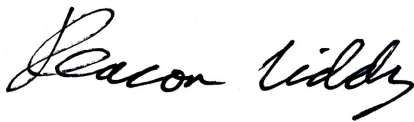
Water requirements to service the facility are minimal and water is already available on site. There will be installation of public washrooms at the main scale house.

## 6. Waste Disposal

To prevent accumulation of residual waste, residual material is transferred to waste bins located proximate to the receiving building. Residuals accumulating from the screening process, where smaller plastic and other non compostable items will be separated, will be placed in a residuals bin located near the screener.

The compost facility is regularly inspected for plastic and other debris. Any plastic and debris is collected and placed in the residuals bin. All collected residuals are regularly brought to an authorized landfill.

Regards



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# Attachments

# **Attachment 1**

**GPE Compost Facility Operations Plan**

# **Attachment 2**

## **Odour Management Plan**



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