SMAQMD BACT CLEARINGHOUSE

ACTIVE

CATEGORY Type: **MATERIAL - HANDLING**

BACT Category: Minor Source BACT

BACT Determination Number:	401	**BACT Determination Date:**	08/20/2025

Equipment Information

Permit Number: N/A - Generic BACT Determination

Equipment Description: GREEN/ORGANIC WASTE PROCESSING AND TRANSFER OPERATION

Unit Size/Rating/Capacity: All

Equipment Location: N/A - Generic BACT Determination

BACT Determination Information

District Contact: Felix Trujillo, Jr. **Phone No.:** (279) 207-1154 **Email:** ftrujillo@airquality.org

ROCs	**Standard:**	Remove green waste within 48 hours of arrival and the organic waste (including foodwaste) within 24 hours of arrival.
	Technology Description:	
	Basis:	Achieved in Practice
NOx	**Standard:**	
	Technology Description:	
	Basis:	
SOx	**Standard:**	
	Technology Description:	
	Basis:	
PM10	**Standard:**	
	Technology Description:	
	Basis:	
PM2.5	**Standard:**	
	Technology Description:	
	Basis:	
CO	**Standard:**	
	Technology	

		Description:	
		Basis:	
	LEAD	**Standard:**	
		Technology Description:	
		Basis:	
Comments:		Removing organic waste (including food waste) from the facility within 24 hours of arrival is technologically feasible.	

777 12th Street, Ste. 300

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

Sacramento, CA 95814

BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION

DETERMINATION NO.: 401

DATE: May 30, 2025

ENGINEER: Felix Trujillo, Jr.

Category/General Equip Description: Material Processing

Equipment Specific Description: Green/Organic (including food) Waste Processing and Tranfser Operation (Non-Composting Facility)

Equipment Size/Rating: Minor Source

Previous BACT Det. No.: None

This BACT determination will apply to a green/organic waste receiving, handling and transfer operation at a non-composting facility.

This BACT was determined under the project for A/C 28061 (Zanker Road Resource Management, Ltd. DBA Florin Perkins).

The green waste received at this facility will be stockpiled and sorted outdoors and then sent to the permitted grinder for processing. The green waste will be removed from the facility within 48 hours of receipt. The organic waste, which includes food waste, will be processed within a building. The material will be unloaded onto the ground and sorted using a front end loader. The organic material will then be removed from the facility within 24 hours of receipt to be processed at an another facility.

BACT ANALYSIS

A: ACHIEVED IN PRACTICE (Rule 202, §205.1a)

The following control technologies are currently employed as BACT for green/organic waste receiving, sorting and transfer operation:

District/Agency	Best Available Control Technology (BACT)/Requirements
US EPA	**BACT** Source: EPA RACT/BACT/LAER Clearinghouse The EPA RACT/BACT/LAER Clearinghouse does not have a BACT determination for this source category. **RULE REQUIREMENTS**: None
ARB	**BACT** Source: ARB BACT Clearinghouse The ARB BACT Clearinghouse does not have a BACT determination for this source category. **RULE REQUIREMENTS**: None
SMAQMD	**BACT** Source: SMAQMD BACT Clearinghouse The SMAQMD does not have a BACT determination for this source category. **RULE REQUIREMENTS**: None
South Coast AQMD	**BACT** Source: SCAQMD BACT Clearinghouse for Non-Major Polluting Facilities. The SCAQMD does not have a BACT determination for this source category. **RULE REQUIREMENTS**: Rule 1133.1 – Chipping and Grinding Activities The purpose of this rule it to prevent inadvertent decomposition occurring during chipping and grinding activities, including stockpile operations. Section (d)(2) of this rule requires greenwaste to be removed from the facility within 48 hours of receipt. Although this operation is not chipping or grinding, the removal of the green waste from the site within 48 hours of receipt would be applicable to this operation to avoid the decomposition of the material, which may result in VOC emissions.

District/Agency	Best Available Control Technology (BACT)/Requirements
San Diego County APCD	**BACT** Source: SDCAPCD BACT Clearinghouse The SDAPCD does not have a BACT determination for this source category. **RULE REQUIREMENTS**: None
Bay Area AQMD	**BACT** Source: BAAQMD BACT Clearinghouse The BAAQMD does not have a BACT determination for this source category. **RULE REQUIREMENTS**: None
San Joaquin Valley APCD	**BACT** Source: SJVAPCD BACT Clearinghouse The SJVAPCD does not have a BACT determination for this source category, but they do have a BACT (6.4.15 – Composting Feedstock Receiving, Mixing, and Stockpiles (Non-biosolids) that is applicable to green and foodwaste to prevent the decomposition of the material and avoid significant emissions of VOCs or odors. This BACT requires the facility to process or removefoodwaste within 48 hours of receipt. The BACT also requires facilities that process more than or equal to 100,000 tons per year of material to be processed within 3 days of receipt and facilities that process less than 100,000 tons/year of material to processes the green waste within 7 days of receipt. **RULE REQUIREMENTS**: None

The following control technologies have been identified and are ranked based on stringency:

SUMMARY OF ACHIEVED IN PRACTICE CONTROL TECHNOLOGIES		
Pollutant	**Standard**	**Source**
VOC	Removal of green/organic (food) waste from the facility within 48 hours or receipt.	SCAQMD, SJVAPCD
NOx	No Standard	
SOx	No Standard	
PM10	No Standard	
PM2.5	No Standard	
CO	No Standard	

The following control technologies have been identified as the most stringent, achieved in practice control technologies:

BEST CONTROL TECHNOLOGIES ACHIEVED (A)		
Pollutant	**Standard**	**Source**
VOC	Removal of green/organic (food) waste from the facility within 48 hours or receipt.	SCAQMD, SJVAPCD
NOx	No Standard	
SOx	No Standard	
PM10	No Standard	
CO	No Standard	

B. TECHNOLOGICALLY FEASIBLE AND COST EFFECTIVE (Rule 202, §205.1.b.):

Technologically Feasible Alternatives:

Any alternative basic equipment, fuel, process, emission control device or technique, singly or in combination, determined to be technologically feasible by the Air Pollution Control Officer.

The table below shows the technologically feasible alternatives identified as capable of reducing emissions beyond the levels determined to be "Achieved in Practice" as per Rule 202, §205.1.a.

Pollutant	Technologically Feasible Alternatives
VOC	Facility is proposing to remove the organic (food) waste from the facility within 24 hours of receipt. (A)
NOx	Not applicable
SOx	Not applicable
PM10	Not applicable
PM2.5	Not applicable
CO	Not applicable

(A) No cost analysis is required since the applicant is proposing the most effective control technology.

C. SELECTION OF BACT:

Minor Source BACT for a green/organic waste (including food waste) processing and transfer operation is the following:

BACT FOR A GREEN/ORGANIC WASTE (INCLUDING FOOD WASTE) PROCESSING AND TRANSFER OPERATION		
Pollutant	**Standard**	**Source**
VOC	Remove green waste from the facility within 48 hours of receipt and the organic waste (containing food waste) within 24 hours of receipt.	SCAQMD, SJVAPCD
NOx	No Standard	
SOx	No Standard	
PM10	No Standard	
PM2.5	No Standard	
CO	No Standard	

APPROVED BY: *Brian F Krebs* **DATE:** 08-20-2025