

OLYMPIC REGION CLEAN AIR AGENCY

2940 B Limited Lane NW - Olympia, Washington 98502 - 360-539-7610 – Fax 360-491-6308

NOC FORM 23 COMPOSTING OPERATION

GENERAL INFORMATION	
Facility Name:	Contact Person: Phone Number:
Facility Location:	Operating Schedule: (days accepting waste) ____ hrs/day, ____ days/wk, ____ wks/yr Circle days when operating: M T W Th F Sat Sun
TECHNICAL SPECIFICATIONS	
Type and Amount (in tons per day, week or month) of Materials Accepted for Composting: 1. 2. 3. 4.	
TRANSPORT. How will bulk materials be transported to the facility? Describe method of transport, types of roads, frequency of transport and dust control methods:	
STORAGE. Materials stored at the facility prior to composting? Describe storage methods, dimensions of tanks and basins, duration of storage and odor control methods:	
PREPARATION. Describe material preparation methods (chipping, grinding, mixing, bulking, additives):	
COMPOSTING. Describe composting methods and facilities:	
TURNING AND AERATION. Describe how the compost will be turned and aerated:	LIST EQUIPMENT:
MONITORING. Check all that will be monitored and describe how on a separate sheet of paper: Nutrient balance Temperature Moisture pH Pile Oxygen _____ Other	DESCRIBE MONITORING METHODS:
ODOR CONTROL METHODS.	
OTHER INFORMATION. The following information is needed to complete the application: 1. Site map showing property lines, distances to nearby residences, location and footprint of all buildings, height of all buildings, location of haul roads, and location of composting operations. 2. Detailed description of odor control equipment.	

Note: See back side of form for ORCAA approved equipment and operations.

**REQUIREMENTS FOR NEW COMPOSTING OPERATIONS
ORCAA 9/97**

1. **Process Control to Prevent Odors.** The process variables listed in the following table shall be monitored and maintained within the ranges specified using appropriate equipment and/or techniques.

PROCESS VARIABLE	REQUIREMENTS	CONTROL OPTIONS
Feedstock Preparation	<ol style="list-style-type: none"> 1. Process feedstock beginning day of delivery so that composting can start immediately, or adequately store waste so that it does not cause odors or dust. 2. Minimize odors and dust from feedstock preparation. 	<ol style="list-style-type: none"> 1. Process feedstocks in building equipped with local equipment exhaust. 2. Use water spray or other suitable dust control methods during feedstock preparation.
Pile Porosity	<p>Establish initial pile porosity at ~ 60%.</p> <p>Maintain pile porosity at > 35% pile porosity.</p> <p>Prevent clumping and "dead spots" within the pile.</p>	<ol style="list-style-type: none"> 1. Monitor pile porosity at a suitable frequency. 2. Employ adequate chipping, grinding mixing and compost turning equipment. 3. Avoid compaction by keeping pile below slumping and compaction heights.
Nutrient Balance	Initial C:N ratio should be ~ 25:1 or greater.	<ol style="list-style-type: none"> 1. Monitor C:N ratio prior to pile formation. 2. Have plan for adjusting the C:N ratio prior to pile formation.
Pile Oxygen	Pile O ₂ greater than 16% during composting.	<ol style="list-style-type: none"> 1. Monitor O₂ during composting at a suitable frequency. 2. Employ efficient equipment for compost turning. 3. Use forced or induced pile aeration.
Pile pH	Maintain pH between 6.0 and 7.5 during composting.	<ol style="list-style-type: none"> 1. Monitor pH during composting at a suitable frequency. 2. Aerate pile. 3. Adjust pH using amendments.
Pile Moisture	Maintain pile between 45 and 60 percent moisture content.	<ol style="list-style-type: none"> 1. Monitor moisture content at suitable frequency. 2. Ability to add moisture or to prevent moisture infiltration into the pile.
Pile Temperature	Maintain temperature necessary to eliminate pathogens and biological stability required to satisfy markets.	<ol style="list-style-type: none"> 1. Monitor temperature at suitable frequency. 2. Employ efficient equipment for compost turning.
Other Process Variables	<ol style="list-style-type: none"> 1. Prevent ponding. 2. Keep equipment clean. 	<ol style="list-style-type: none"> 1. Insure suitable drainage. 2. Clean equipment daily.

2. **Odor Control Equipment.** Odor control equipment may be required depending on several site specific variables including the size of the proposed composting operation, types of materials to be composted, and proximity of the composting facility to nearby residences and other buildings. Odors may be controlled through bio-filters or other suitable means. Masking agents are not allowed, however, odor control agents which are true "combining agents" may be considered. If a biofilter is proposed, please provide a detailed description of the system.