



Puget Sound Clean Air Agency

Notice of
Construction No.

12186

Registration No. 30369

Date

SEP 21 2023

HEREBY ISSUES AN ORDER OF APPROVAL
TO CONSTRUCT, INSTALL, OR ESTABLISH

Positive aeration static pile (ASP) composting of yard waste from landscaping operations. The operation shall process and compost no more than 1,500 wet tons of organic material per year.

OWNER

Monarch Landscape WA
7627 W Bostian Rd
Woodinville, WA 98072

INSTALLATION ADDRESS

Monarch Landscape WA
7627 W Bostian Rd
Woodinville, WA 98072

THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

EMISSION LIMITING CONDITIONS

3. All piles shall be monitored and maintained as needed such that odors shall not exceed Level 2 from the point of emission. Level 2 odor is defined in Puget Sound Clean Air Agency (PSCAA) Regulation I Section 9.11(b)(1) as an “odor [that] is distinct and definite, [with] any unpleasant characteristics [being] clearly recognizable”.
 - a. Aerated static piles (ASPs) shall be positively aerated as needed to ensure aerobic decomposition occurs.
 - b. All piles shall be covered with a biofilter layer composed of finished, stable compost. The biofilter layer shall be at least 6 inches in depth.
4. There shall be no visible emissions (excluding the presence of uncombined water) at any time during the receiving, grinding, screening, blending, or moving of organic materials. The owner or operator shall maintain a written log whenever visible emissions are observed. Log entries shall contain, at a minimum, the following information:
 - a. Whether or not visible emissions were observed;
 - b. The date and time the emissions were observed;
 - c. A description of the activity that caused the emissions;
 - d. The corrective action(s) taken to stop the emissions;
 - e. Whether or not the emissions persisted after the initial action was taken;
 - f. The date and time the emissions were no longer visible;

If the emission persists after the initial corrective action is taken, operations related to the emissions must cease immediately until fully dissipated and further corrective action is taken to ensure compliance with

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this condition before the ceased operations can resume.

5. In addition to the requirements noted in Condition 4, if visible emissions are the result of grinding, screening, or blending of composted materials, then corrective action measures to mitigate the emissions must include the wetting of the materials.
6. Feedstocks for this operation are limited to non-food yard debris collected from landscaping operations (leaves, tree trimmings, grass, etc.). Woody organic materials or wood waste (sawdust, bark, etc.) may be used as a bulking agent.
7. Feedstocks containing contaminants (as defined per WAC 173-350-100: “any chemical, physical, biological, or radiological substance that does not occur naturally in the environment or that occurs at concentrations greater than natural background levels”), materials that have decomposed or putrefied such that an odor at or exceeding Level 2 cannot be mitigated by mixing or bulking with other materials, and/or unapproved materials as denoted by Condition 6 of this Order are prohibited for processing in this operation.
 - a. If the contaminated, decomposed, and unapproved materials can be removed completely from the load, then the feedstock may be allowed provided it is deemed acceptable per Condition 7 of this Order.
 - b. The removed contaminants and unapproved materials are to be removed from the site within 48 hours.
8. Feedstocks to be processed in this operation are limited to 1,500 tons per year (12 consecutive calendar months). Composted material being actively used as a biofilter layer are exempted from the tonnage limit. The owner or operator shall develop and maintain a tonnage log of all feedstocks processed in this operation and placed into the ASP storage cells. The log shall contain, at a minimum, the following information:
 - a. The weight or mass of mix added to the ASP and the date it was added (“mix” shall include feedstocks, bulking agents, overs, and composted materials added for pile structure);
 - b. The sum of total tons of feedstock accepted and composted during the calendar month;
 - c. The sum of total tons of feedstock accepted and composted during the previous 12 consecutive calendar months.
9. Compost leachate (contact water) and stormwater generated during this operation shall be routed to a designated storage and management system. Leachate is allowed for reuse provided the water does not emit an odor at or exceeding Level 2 as defined per PSCAA Regulation I Section 9.11(b).

OPERATION CONDITIONS

FEEDSTOCK PROCESSING AND STORAGE

10. Incoming feedstock shall be thoroughly examined for contaminants prior to being deemed acceptable for processing in this operation. A load shall be deemed unacceptable if it is not compliant with Conditions 6 and 7 of this Order. Prior to being accepted for processing, the operator shall inspect each incoming load and record the following information:
 - a. The date and time the load was received;
 - b. The name(s) of the operator(s) conducting the inspection;

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- c. Whether the load was deemed acceptable or unacceptable, and why;
 - i. Was the load contaminated? If so, what were the contaminants and were the contaminants removable?
 - ii. Was odor at or above Level 2 detected? If so, was it successfully mitigated? How so?
 - iii. Was any other corrective action taken to make the load acceptable for processing? If so, provide a description of the action.

MONITORING CONDITIONS

11. The core temperature of all composting piles shall be monitored and recorded in a written log based on the schedule listed below. The log shall include, at a minimum, the date and time, the ambient temperature at the time the temperature is taken, and the core temperature of the pile. A description of corrective actions taken to control the core's temperature shall also be recorded, if performed. The equipment used to measure the temperature shall be maintained and calibrated in accordance with manufacturer instructions and operating manuals.
 - a. The pile's core temperature shall be monitored and recorded at least once every 24 hours from the pile's construction until 14 consecutive days after the pile achieves PFRP (a temperature of at least 131°F for 3 consecutive days) OR until the pile temperature decreases below 155°F for 3 consecutive days after the pile achieves PFRP. Thereafter, the temperature shall be monitored and recorded at least once every 7 days (1 calendar week).
 - b. If the recorded weekly temperature is measured at or above 155°F, the temperature shall be monitored and recorded at least once every 24 hours. Corrective action shall be taken to reduce the core temperature until it is at or below 155°F. Corrective action may include turning, hydrating, or aerating the pile.
12. The designated blower fans, approximate moisture content, and pile structure/porosity for all ASPs shall be inspected and monitored contemporaneously with the temperature monitoring schedule denoted in Condition 11. This log shall include the following information:
 - a. The date and time of the inspection;
 - b. The name of the operator(s) conducting the inspection;
 - c. A description of the inspection results for the blower fans and associated tubing and the pile's structure/porosity;
 - d. A description of the approximate moisture of the pile (results of the "squeeze" test as a moisture % meets this requirement);
 - e. A description of corrective actions taken, if performed to mitigate emissions.
13. All organic material being composted shall remain in a designated storage cell for ASP composting or curing until the material has been determined to be "moderately unstable to very stable" per WAC 173-350-220 Table 220-B (at which point it is considered finished "compost"). Compost stability shall be measured by a Solvita Maturity Index of 5 or greater as measured using the TMECC Method 05-08-E – Solvita® Maturity Test or a laboratory stability test measuring the CO₂ evolution related to "moderately unstable to very stable".
14. All biofilter layers shall be inspected at least once per operating calendar week for adequate moisture and gaps in pile coverage, as well as layer depth. Layer depth shall be measured to ensure a depth of at least 6 inches. This log shall include, at a minimum, the following information:
 - a. The date and time of the inspection;

- b. The name of the operator(s) conducting the inspection;
- c. A description of the inspection results conducted for adequate moisture and pile coverage;
- d. The measured depth of the biofilter layer in inches;
- e. All corrective actions taken, if performed.

FACILITY OPERATIONS AND MAINTENANCE

- 15. The owner or operator shall conduct a facility-wide inspection at least once per calendar week. The inspection shall include an odor check along and outside the property line and from direct emission sources for any detectable odors at or exceeding Level 2. This log shall include, at a minimum, the following information:
 - a. The date and time of the inspection;
 - b. The name of the operator(s) conducting the inspection;
 - c. A description of the odor along the facility perimeter and at least 6 feet beyond the property line;
 - d. The exact location where each odor check was conducted (a map or site drawing with marked odor checkpoints meets this requirement);
 - e. All corrective actions taken if the odor at or exceeding Level 2 is detected;
- 16. The owner or operator shall develop, maintain, and operate in accordance with an Operation and Maintenance (O&M) Plan consistent with the requirements of PSCAA Regulation I Section 5.05(c). The plan must address maintenance and inspection procedures as well as corrective actions for all equipment and operations including but not limited to diesel equipment, storage cells, and feedstock/curing/aerated piles.
- 17. In addition to the requirements of Condition 16, the O&M plan must also establish a complaint response system which, at a minimum, receives and records complaints, and investigates complaints to determine if the source is the responsible party and what emission unit is causing the emissions, and a format for communicating the investigation results and corrective actions taken, if performed.

RECORD-KEEPING CONDITIONS

- 18. All records of observations, inspections and supporting documentation required by this Order of Approval shall be completed contemporaneously OR no later than the end of each day the required inspection occurs.
- 19. The owner or operator shall maintain all records required by this Order of Approval for at least two years and make them readily available to the Control Officer upon request.

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APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.



Ivan Acquaah
Reviewing Engineer



John Dawson
Engineering Manager