

Turned Aerated Pile (TAP)



A Turned Aerated Pile (TAP) system is the fastest and most efficient way to make compost on a small footprint. The design is based on a solid bed of compost (mass bed) over a below grade aerated pad. Installing the aeration piping below the concrete surface allows a side discharge compost turner to mix, wet and move the compost across the pad producing finished product in less than 40 days. A six-acre site with two equipment operators can process over 300 tons per day (110,000 tons per year) from the initial grinding process to the final loadout making this the most streamlined and profitable system available today.

A typical design of two modules and 110,000 TPY would have the following operational requirements:

- Easily run by 2 full time equipment operators to minimize labor costs
- Turning takes less than 4 hours a day
- Screening takes less than 4 hours a day including loading out large trucks
- Grinding and loading the incoming feedstocks takes less than 4 hours per day
- Site cleanup, daily equipment maintenance and fueling takes less than 3 hours per day
- Pipe friction losses reduced to less than 20% of blower pressure
- Simplified condensate and leachate handling using below grade tanks
- Improved Process air cooling before bio-filtration

A complete facility with the capacity to process over 300 tons per day (110,000 tons per year), for up to 70 days total holding time can fit on less than 6 acres. The Tap system is the most efficient system available to help you make beautiful compost.



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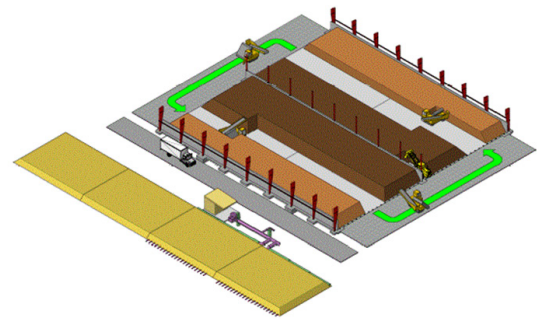
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TAP Design Features

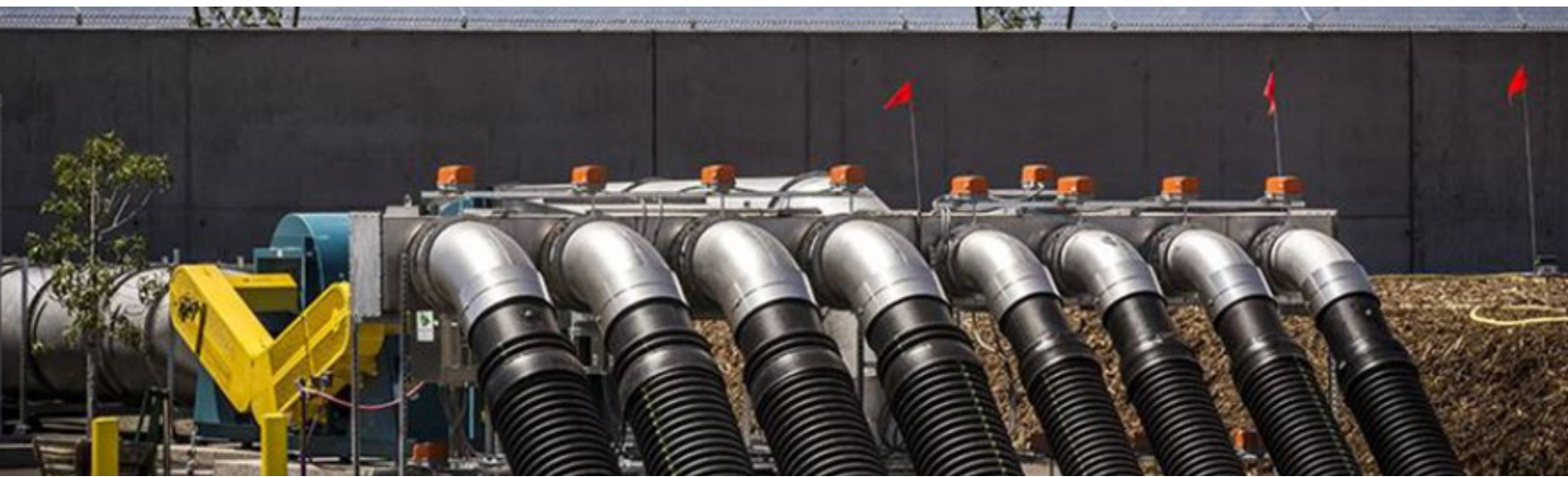
Odors are managed using high pressure aeration, bio-filters and bio-covers to meet the most stringent air quality regulations. Water runoff is collected, treated and re-used to the greatest extent possible allowing facilities in most climates to meet zero water discharge. The TAP system provides a complete and powerful turnkey solution.

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Below grade aeration systems allow complete flexibility of operations and equipment movement. No pipes to pull, clean and reconnect to manifolds. GMT uses a proprietary sparger design which self-cleans while providing even aeration across the pad. Each pad is custom designed based on your feedstocks, volumes and area available. Coupled with GMT's CompDACS control system, the air flow can be either positive, negative or reversing. Odor control is accomplished using biofilters and bio covers to treat process air.



The plug flow layout allows an efficient side discharge turner to be used to move the piles at more than 2,000 cubic yards per hour with one operator. This equipment allows the compost to be turned and re-watered every 3 to 5 days for a total of 7 to 8 turns across the aeration floor. Active composting and aerated curing is completed over a 40-day period. The modular design processes 65,000 tons per blower and damper group on a pad footprint of 90'x180'.



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