

IPS Composting System: Ardmore, Oklahoma

When the City of Ardmore, Oklahoma was confronted with major decisions related to its wastewater treatment plant biosolids program, city officials carefully weighed the benefits of maintaining the land application program with the efficiencies of seeking an entirely different alternative. Trucks transporting 40,000 gallons of liquid biosolids to farm sites each day were aging, and the plant was struggling to comply with State regulatory requirements.

Composting on-site was selected as the best solution. It reduced the manpower requirements and the overall equipment costs.

The compost facility is enclosed and houses a belt dewatering press. Aerobically digested biosolids are piped into the facility, dewatered, and conveyed onto the mix floor. A front end loader transfers the dewatered cake and shredded yard waste from the City's Operation Pride Program into a mechanical mixer. The mixer deposits the blended material onto the floor where the front end loader places in into one of five concrete bays where the composting process begins.



The facility uses the IPS Compost System from Siemens Water Technologies, an automated, agitated bed system that is designed for 21 days in the active processing stage. The facility is designed to produce up to 18,000 cubic yards of compost each year and handle as much as 9,600 lbs of dewatered sludge per day. Located in an industrial area adjacent to an oil refinery, the City determined that an odor control system would not be necessary.

The Facility was engineered by the Benham Companies of Tulsa, Oklahoma, and the General Contractor was Wynn Construction Company of Oklahoma City, Oklahoma.

Ardmore, Oklahoma

Owner: City of Ardmore

On Line: August 2006

Engineer: Benham Companies of Tulsa, OK

Capacity: 130 cubic yards per day

Processing: Biosolids with yard waste

Facility Size: 5 bays, each 195 feet long x 10 feet wide; 24,000 square feet enclosed composting building with dewatering area; partially enclosed amendment and compost storage

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