

## Poultry Farm Waste Management Odor Control Checklist

Source	Cause	BMPs to Minimize Odor	Site Specific Practices
Farmstead	<ul style="list-style-type: none"> <li>• Poultry production</li> </ul>	<input type="checkbox"/> Vegetative or wooded buffers <input type="checkbox"/> Recommended best management practices <input type="checkbox"/> Good judgment and common sense	
Floor surfaces (walk aisles)	<ul style="list-style-type: none"> <li>• Wet dirty surfaces</li> </ul>	<input type="checkbox"/> Scrape manure, dust, feathers into collection alleys <input type="checkbox"/> Splash boards along upper ends of collection alleys <input type="checkbox"/> Proper ventilation	
Cage manure dropping boards	<ul style="list-style-type: none"> <li>• Manure-covered surfaces</li> </ul>	<input type="checkbox"/> Scrape manure into collection alleys	
Manure collection alleys	<ul style="list-style-type: none"> <li>• Partial microbial decomposition</li> </ul>	<input type="checkbox"/> Frequent manure removal by flush or scrape <input type="checkbox"/> Frequent checks and maintenance on waterers and water pipes	
Ventilation exhaust fans	<ul style="list-style-type: none"> <li>• Volatile gases</li> <li>• Dust</li> </ul>	<input type="checkbox"/> Fan maintenance <input type="checkbox"/> Efficient air movement	
Indoor surfaces	<ul style="list-style-type: none"> <li>• Dust</li> </ul>	<input type="checkbox"/> Vacuum or washdown between flocks	
Manure conveyors	<ul style="list-style-type: none"> <li>• Partial microbial decomposition</li> </ul>	<input type="checkbox"/> Keep mechanical equipment in good repair <input type="checkbox"/> Remove manure accumulations promptly	
Storage tank or basin surface	<ul style="list-style-type: none"> <li>• Partial microbial decomposition</li> <li>• Mixing while filling</li> <li>• Agitation when emptying</li> </ul>	<input type="checkbox"/> Bottom or midlevel loading <input type="checkbox"/> Tank covers <input type="checkbox"/> Basin surface mats of solids <input type="checkbox"/> Proven biological additives or oxidants	
Manure slurry or sludge spreader outlets	<ul style="list-style-type: none"> <li>• Agitation when spreading</li> <li>• Volatile gas emissions</li> </ul>	<input type="checkbox"/> Soil injection of slurry/sludges <input type="checkbox"/> Wash residual manure from spreader after use <input type="checkbox"/> Proven biological additives or oxidants	

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Uncovered manure slurry or sludge on field surfaces	<ul style="list-style-type: none"> <li>• Volatile gas emissions while drying</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Soil injection of slurry/sludges</li> <li><input type="checkbox"/> Soil incorporation within 48 hours</li> </ul>	
Outside drain collection or junction boxes	<ul style="list-style-type: none"> <li>• Agitation during wastewater conveyance</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Box covers</li> </ul>	
Lift stations	<ul style="list-style-type: none"> <li>• Agitation during sump tank filling and drawdown</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Sump tank covers</li> </ul>	
End of drainpipes at lagoon	<ul style="list-style-type: none"> <li>• Agitation during wastewater conveyance</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Extend discharge point of pipes underneath lagoon liquid level</li> </ul>	
Lagoon surfaces	<ul style="list-style-type: none"> <li>• Volatile gas emissions</li> <li>• Biological mixing</li> <li>• Agitation</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Proper lagoon liquid capacity</li> <li><input type="checkbox"/> Correct lagoon startup procedures</li> <li><input type="checkbox"/> Minimum surface area-to-volume ratio</li> <li><input type="checkbox"/> Minimum agitation while pumping</li> <li><input type="checkbox"/> Mechanical aeration</li> <li><input type="checkbox"/> Proven biological additives</li> </ul>	
Irrigation sprinkler nozzles	<ul style="list-style-type: none"> <li>• High pressure agitation</li> <li>• Wind drift</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Irrigate on dry days with little or no wind</li> <li><input type="checkbox"/> Minimum recommended operating procedure</li> <li><input type="checkbox"/> Pump intake near lagoon liquid surface</li> <li><input type="checkbox"/> Pump from second-stage lagoon</li> </ul>	

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Dead birds	<ul style="list-style-type: none"> <li>• Carcass decomposition</li> </ul>	<input type="checkbox"/> Proper disposition of carcasses	
Dead bird disposal pits	<ul style="list-style-type: none"> <li>• Carcass decomposition</li> </ul>	<input type="checkbox"/> Complete covering of carcasses in burial pits <input type="checkbox"/> Proper location/construction of disposal pits <input type="checkbox"/> Disposal pit covers tight fitting	
Standing water around facilities	<ul style="list-style-type: none"> <li>• Improper drainage</li> <li>• Microbial decomposition of organic matter</li> </ul>	<input type="checkbox"/> Grade and landscape such that water drains away from facilities	
Mud tracked onto public roads from farm access	<ul style="list-style-type: none"> <li>• Poorly maintained access roads</li> </ul>	<input type="checkbox"/> Farm access road maintenance	

### Additional Information:

Poultry Manure Management; .0200 Rule/BMP Packet

Poultry Layer Production Facility Manure Management: High Rise, Deep Pit; EBAE 131-88

Poultry Layer Production Facility Manure Management: Undercage Flush—Lagoon Treatment; EBAE 130-88

Lagoon Design and Management for Livestock Manure Treatment and Storage; EBAE 103-83

Calibration of Manure and Wastewater Application Equipment; EBAE Fact Sheet

Proper Disposal of Dead Poultry; PS&T Guide No. 19

Nuisance Concerns in Animal Manure Management: Odors and Flies; PRO107, 1995 Conference Proceedings

### Available From:

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