



SRAP

Spill Characteristics and DNR Enforcement Efforts at Locust Ridge CAFO, 1996–2021

SPILL AND ENFORCEMENT TOTALS

SPILL CHARACTERISTICS						MISSOURI DNR ENFORCEMENT EFFORTS				
Est. Volume of Reported Spills (gal.) ¹	Total Reported Spills	Reported Spills w/ Unknown Volume	% Spills w/ Unknown Volume	Avg. Spill Volume (gal.) ²	Avg. Annual Spill Volume, Past 30 Yrs. (gal.) ²	Letters of Warning	Notices of Violation	Spills w/o Onsite Response	% Spills w/o Onsite Response	Volume of Spills w/o Onsite Response (gal.) ¹
288,500	24	3	13%	13,738	9,617	0	3	13	54%	210,800

¹ These totals do not include reported spills of unknown volume. For details about spill calculation, see the Methodology section of the Rap Sheet (sraproject.org/SmithfieldMORapSheet)

² Average volumes were calculated for known spills (i.e., excluding spills of unknown volume).

LOCUST RIDGE—REPORTED WASTE SPILLS AND VIOLATIONS

DATE	ESTIMATED GALLONS SPILLED	DESCRIPTION
3/4/1996	500	Agency records indicate a plugged pipeline caused a spill during a routine DNR inspection.
9/17/1996	100	Agency records indicate a gasket failure spilled wastes that soaked into the soil.
9/14/1999	100	NOV #0780NE: On August 26, 1999, a DNR inspector documented that the dead animal holding facility had spilled approximately 100 gallons of “dead animal juice” onto the ground. DNR wrote, “It appeared that the dead animal juices had been in that location for some time. The volume of the liquids pooled on the surface of the soil was estimated to be approximately 100 gallons... Maintenance of the DAF [Dead Animal Facility] had been listed as an item recommended for improvement in the previous inspection. Furthermore, the DAF at several of PSF (sic) facilities had similar problems during the quarter and this was by far the worst case.”
4/4/2000	-----	“NOV #0834NE: “Failure to Perform Stormwater Monitoring Within 24 Hours of Land Application” NOV #0835NE: “Failure to Report Other Chemicals Used at the Facility” NOV #0838NE: “Failure to Submit Accurate Discharge Monitoring Reports (DMRs) of the July 28, 1999, Discharge from Whitetail Facility” DMR Report on the 1999 Annual Records Review: “PSF failed to accurately report the required parameters from wastewater discharges as required by the existing permit. During a July 28, 1999, discharge of processed waste into Sandy Creek from the Whitetail facility, NERO [DNR Northeast Regional Office] staff collected samples for ammonia. The results of the NERO samples at the down gradient property boundary were nearly 500 times as high as those listed in the [company] report for the same day at the same sample location.” Ten of eleven facilities reviewed were determined to be in noncompliance.
4/26/2000	-----	U.S. EPA NOV issued: U.S. EPA issues PSF a Notice of Violation of the federal Clean Air Act alleging that PSF annually emits several hundred tons of potentially hazardous air pollutants including hydrogen sulfide and particulate matter from its hundreds of confinement buildings and open-pit waste lagoons. USEPA also cites PSF’s failure to apply for air pollution permits as required by law.

9/19/2000	unknown	NOV #0977NE: Agency records indicate a spill of putrefying dead animal fluids. "Over the past few months, many of the inspection reports have listed the operation and maintenance of the dead animal facilities as an issue...inspector discovered the doors to the facility open. A decaying hog carcass and putrefying organic matter were discovered on the concrete pad directly below the overhead holding tank. There was a release of organic liquids."
12/2/2005	50,000–55,000	Agency records indicate a plugged pipeline backed up wastes into Barn 1 and spilled into emergency containment.
5/15/2006	1,500	Agency records indicate that a tractor land-applying wastes had a mechanical failure during a turn around and the remote shutoff failed. Wastes spilled into a drainageway. An emergency dam was constructed to contain the spill. Some wastes entered a pond on site.
5/21/2008	19,000	Agency records indicate a leaking field riser spilled wastes into a dry drainageway during land application activities. An emergency dam was constructed to contain the spill.
1/15/2009	1,000	Agency records indicate a burst pipeline in the attic of barn #7 spilled wastes into emergency containment or froze in place before reaching containment. DNR did not respond on site to investigate the incident.
5/24/2009	200	Agency records indicate overapplication and runoff of approximately 200 gallons of wastes into the right of way of County Road E. An emergency dam was constructed to contain the spill. DNR did not respond on site to investigate the incident.
6/25/2009	2,000	Agency records indicate a waste irrigation riser "blew out" during land application and spilled wastes into emergency containment near site #3. DNR did not respond on site to investigate the incident.
11/3/2009	2,000	Agency records indicate a plugged pipeline spilled wastes from a barn into emergency containment.
1/10/2011	2,000	Agency records indicate a broken pipeline at a pump house spilled wastes into emergency containment. DNR did not respond on site to investigate the incident.
5/5/2011	-----	Agency records indicate an email from PSF stated, "As part of our agreement with Missouri Attorney General Chris Koster we have agreed to closing certain barn sites within the PSF Farms known as Hedgewood, Locust Ridge and Somerset (all 1A farms) to population levels of a 1B farm...By the first week of 2012 we will have 22 Farm sites closed representing 176 individual barns."
5/19/2011	-----	Agency records indicate a DNR correspondence to PSF states, DNR "has received your May 5, 2011, email regarding closure of certain barn sites...The mechanical systems at the barn sites are completely inoperable which all but eliminates the possibility of a spill or release of process wastewater from malfunctioning equipment. Therefore, the Department concurs with your plans to suspend twice daily inspections and the operation of secondary containments at the barns sites that are closed."
3/28/2012	-----	Agency records indicate a DNR Annual Records Review of PSF records noted, "The second item of the cover page was discussed, which is the estimated amount of manure, litter and wastewater generated in the previous twelve months. During the review of the individual facilities, it was found that this number was often higher than the design flow listed on the facility's Missouri State Operating Permit...Total gallons land applied was higher than the design flow."
3/28/2012	-----	Agency records indicate a DNR Annual Records Review of PSF records noted that the company failed to report the suspected causes of high ammonia readings [indicative of hog waste] in the company's emergency containment systems as required by their Missouri State Operating Permits. Nine facilities were determined to be in noncompliance.
6/24/2014	unknown	Agency records indicate a DNR inspector documented, "Wastewater was dripping from a pipe in the pump house at Site #5."
7/10/2015	100	Agency records indicate approximately 100 gallons of diesel fuel was spilled onto the ground by contractor Industrial and Environmental Concepts. The fuel spill was contained by absorbent. DNR did not respond on site to investigate the incident.

8/7/2015	80,000	Agency records indicate a plugged pipeline between the barns and lagoon spilled wastes into emergency containment. DNR did not respond on site to investigate the incident.
12/8/2015	100,000	Agency records indicate a broken underground pipeline spilled wastes into emergency containment. DNR did not respond on site to investigate the incident.
1/18/2016	8,000	Agency records indicate a hole in the pipeline between the barns and lagoon spilled wastes into emergency containment. DNR did not respond on site to investigate the incident.
3/4/2016	5,000	Agency records indicate an underground pipeline separated and spilled wastes into emergency containment. DNR did not respond on site to investigate the incident.
5/26/2016	3,000	Agency records indicate a broken pipeline between the barns and lagoon spilled wastes into emergency containment. DNR did not respond on site to investigate the incident.
6/9/2016	3,000	Agency records indicate a broken pipeline between the barns and lagoon spilled wastes into emergency containment. DNR did not respond on site to investigate the incident.
11/23/2016	-----	Agency records indicate a DNR inspector noted, "Fill, grade and establish vegetation in the erosion gullies near the toe of the [lagoon] berm at Site #7."
12/27/2016	1,500	Agency records indicate that the company reported that water in the emergency containment tested high for ammonia. "Unknown reason" was given at the time of Smithfield's reporting. DNR did not respond on site to investigate the incident.
7/10/2017	2,000	Agency records indicate that a DNR inspector documented a leaking joint in an underground pipeline that spilled wastes into a drainageway on company property during the inspection. Two emergency dams were constructed to contain the spill.
11/22/2017	-----	Agency records indicate a DNR inspection noted, "Ensure that the erosion ditches at the south side of the lagoon berm at Site 7 is monitored."
3/5/2019	-----	Agency records indicate a DNR inspector noted, "Ensure that feed spills are removed and properly disposed when discovered. Ensure that the dead haul truck is repaired to prevent the release of motor oil to the environment."
8/1/2019	-----	Agency records indicate a DNR inspector noted, "Ensure that feed spills are removed and properly disposed when discovered."
12/12/2019	-----	Agency records indicate a DNR inspector noted, "Ensure that feed spills are removed and properly disposed when discovered."
5/14/2020	-----	Agency records indicate a DNR inspector noted, "Ensure that feed spills are removed and properly disposed when discovered."
8/11/2020	-----	Agency records indicate a DNR inspector noted, "Ensure that feed spills are removed and properly disposed when discovered."
10/22/2020	unknown	Agency records indicate a DNR inspector noted, "Ensure that feed spills are removed and properly disposed when discovered. Ensure the dead haul truck is repaired to stop the oil leak."
Date not entered in DNR's spill database	5,000	Agency records indicate a garden hose in the recycle flush pipeline in the pit under the barn was caught by a hog and pinned against the wall. Wastes spilled from the sill plate and foundation into emergency containment. DNR did not respond on site to investigate the incident.