

Meat and Poultry Processing

CHOCTAWHATCHEE RIVER WATERSHED

Alabama's Choctawhatchee River originates as two separate forks (East Fork and West Fork) in wetlands near Clayton in Barbour County. The East and West Forks flow through areas with more species of trees than any other forest in temperate North America. Near Ozark in central Dale County, the forks merge to form the Choctawhatchee River, which flows southeast for about 48 miles to Geneva. The Choctawhatchee River is one of the longest free-flowing rivers remaining in Alabama and drains an area of 3,484 square miles. Its main tributary, the Pea River, joins the Choctawhatchee just below Geneva near the Florida state line. Forests cover approximately 43% of the watershed, with 26% in pasture and cropland.

MPP Facilities in the Choctawhatchee Watershed

Based on EPA data, there are at least 12 facilities that are potentially encompassed within the Meat and Poultry Products ("MPP") within the Choctawhatchee category watershed - shown on the map to the right. Four of these facilities are located in areas with one or more EJScreen Indexes above the 80th percentile, indicating a strong potential for disproportionate impacts Environmental Justice communities. It is likely that there are additional MPP facilities that discharge indirectly through municipal wastewater treatment plants located in this watershed. Of the identified MPP facilities, based on ADEM and EPA ECHO records, it



appears that three are particularly significant contributors of pollutants to the watershed:

(1) Wayne Farms LLC – Jack Facility, (2) Pilgrim's Pride Corporation – Enterprise, and (3) Keystone Foods – Eufaula Division.

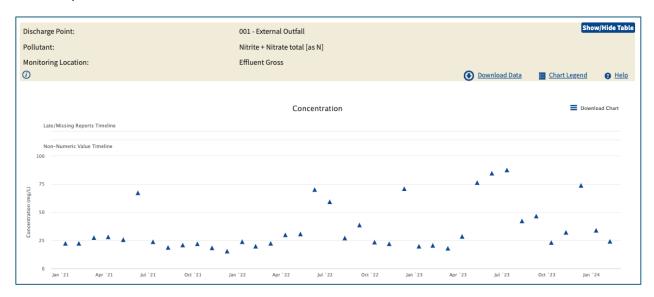
Wayne Farms LLC – Jack Facility, Individual NPDES Permit No. AL0028860, is a Poultry Slaughtering and Processing facility located in Jack, AL. The facility discharges pollutants into the Pea River. The Choctawhatchee Riverkeeper has observed significant algal blooms in the Pea River. He observed the worst algal blooms during drought conditions not far downstream from the Wayne Farms facility.

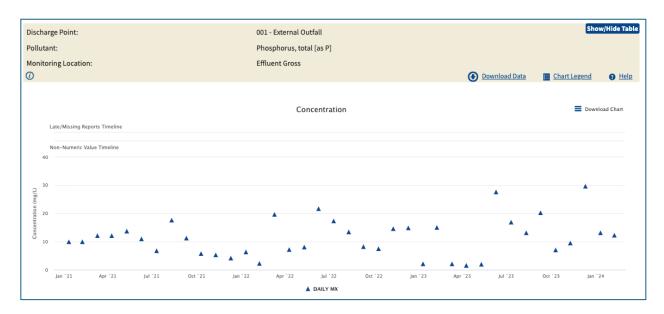


A <u>2018 Alabama Geological Survey Report</u>¹ documented high Nitrate concentrations associated with elevated Chloride concentrations in the lower Pea River.

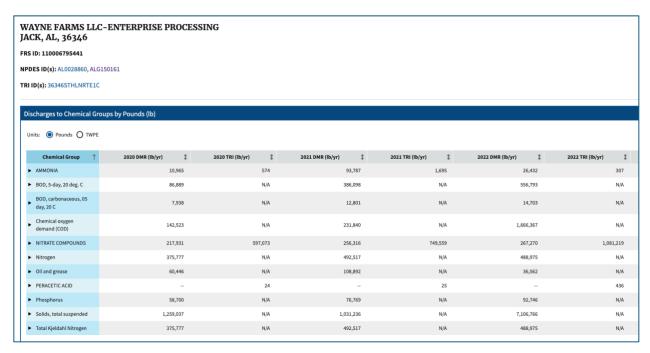
The NPDES permit² for Wayne Farms, which has been administratively continued since it expired on May 31, 2022, only contains concentration limits on Ammonia-N, B.O.D., Fecal Coliform, E. coli, Total Nitrogen, Oil and Grease, pH, and TSS. The Total Nitrogen concentration limits in the permit are very high at 103 mg/l (Monthly Average) and 147 mg/l (Daily Maximum), and the permit does not contain any limits on Total Phosphorus, Nitrate-Nitrite, TKN, Chlorides, or Metals.

As a result of inadequate permit limits, the facility discharges high levels of multiple pollutants into surface waters. For example, <u>ECHO</u> shows that Wayne Farms reported discharges of Nitrate-Nitrite in excess of 50 mg/l and Total Phosphorus in excess of 10 mg/l on multiple occasions:





ECHO <u>DMR and Loading records</u> show that Wayne Farms contributed high loads of pollutants to the Pea River, including high loading of Nitrogen (488,975 lbs./yr. – 2022), TSS (7,106,766 lbs./yr. – 2022), Phosphorus (92,746 lbs./yr. – 2022), Ammonia (93,787 lbs./yr. – 2021), and C.O.D. (1,666,367 lbs./yr. – 2022).

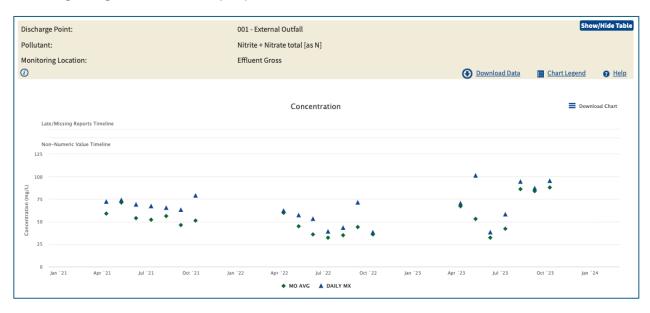


Pilgrim's Pride Corp. – Enterprise is a Poultry Slaughtering and Processing facility located in Enterprise, AL. The facility discharges pollutants into Little Double Bridges Creek, which flows into Double Bridges Creek. Choctawhatchee Riverkeeper has observed very heavy algal growth (filamentous algal mats) in Double Bridges Creek during drought conditions downstream from this facility at Coffee County Road 682.



The NPDES Permit³ for Pilgrim's Pride, which has been administratively continued since it expired on June 30, 2022, only contains concentration limits on Ammonia-N, B.O.D., Fecal Coliform, E. coli, Total Nitrogen, Oil and Grease, pH, D.O., and TSS. The permit does not contain any limits on Total Phosphorus, TKN, Chlorides, or Metals, and the concentration limits for Total Nitrogen are also very high at 103 mg/l (Monthly Average and 147 mg/l Daily Maximum).

As a result of inadequate permit limits, ECHO <u>effluent records</u> show that the facility discharges high levels of multiple pollutants into surface waters.



ECHO <u>DMR and Loading records</u> show that this facility contributed high loads of pollutants to Little Double Bridges Creek, including Nitrogen (2,272,653 lbs./yr. in 2021), Phosphorus (95,173 lbs./yr. in 2022), Ammonia (668,509 lbs./yr. in 2021), Oil and Grease (6,965,682 lbs./yr. in 2021), C.O.D. (121,055,174 lbs./yr. in 2021), and B.O.D. (23,448,267 lbs./yr. in 2021):

DMR and TRI Multi-Year Loading Report PILGRIM PRIDE CORPORATION ENTERPRISE, AL, 36330 FRS ID: 110058963849 NPDES ID(s): AL0003697 TRI ID(s): 36330CNGRBHWY14 Discharges to Chemical Groups by Pounds (lb) Units: O Pounds O TWPE 2022 DMR (lb/yr) Chemical Group 2020 DMR (lb/yr) 2020 TRI (lb/yr) 2021 DMR (lb/yr) 2021 TRI (lb/yr) 3,674,819 668,509 ▶ BOD, 5-day, 20 deg. C 45,562,093 23,448,267 N/A 19,291 124,863,565 121,055,174 N/A 21,647 N/A demand (COD) ► HYDROGEN SULFIDE 0 ▶ NITRATE COMPOUNDS 584,971 1,937,794 1,908,596 764,356 120,763 2,272,653 ▶ Nitrogen N/A ► Oil and grease 17,424,121 6,965,682 16,962 ▶ PERACETIC ACID 3,837,521 860,698 95,173 Phosphorus N/A ► Solids, total suspended 1,064,466,804 959,588,021 N/A 140,153 ▶ Total Kieldahl Nitrogen 7.723.587 N/A 2.272.653 N/A 255,425 ► Total Residual Chlorine N/A 104 N/A 130

Keystone Foods - Eufaula Division, LLC is

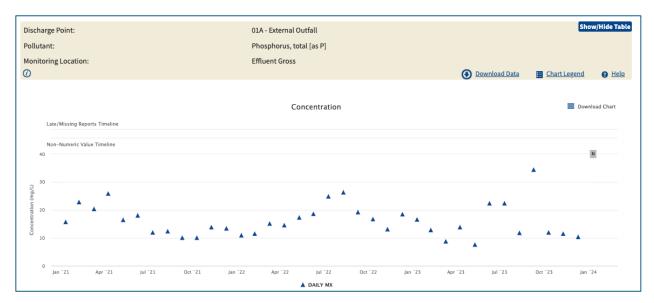
a Poultry Slaughtering and Processing facility located in Bakerhill, AL. The facility discharges pollutants into Sally Hole Branch, and an unnamed tributary to Sally Hole Branch, in the headwaters of the East Fork Choctawhatchee River. Keystone Foods is located in an area that has 1 State EJScreen Index over the 80th percentile based on wastewater



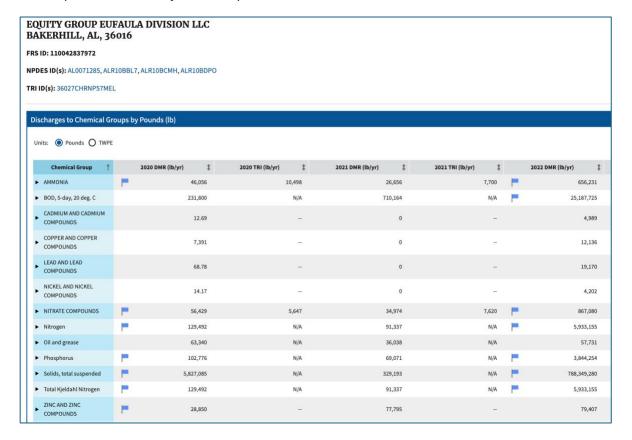
discharges and 3 U.S. EJ Indexes over the 80th percentile, including wastewater discharges.

The NPDES permit⁴ for this facility authorizes stormwater discharges from multiple outfalls and discharge of treated process and sanitary wastewater and digested biosolids associated with poultry processing operations prior to land application through a sprayfield system from two other outfalls – DSN 01A1 (which has no concentration or loading limits other than pH and Oil and Grease) and DSN 01AY (which has no concentration or loading limits besides a 827 lb./acre/yr. land application Total Nitrogen loading limit without any corresponding Phosphorus land application limit). This demonstrates why EPA needs to address land application-related discharges from MPP facilities in the final ELGs.

As a result of inadequate permit limits, ECHO <u>effluent records</u> show that this facility discharges high levels of multiple pollutants into surface waters. For example, in Outfall 01A, Total Phosphorus concentrations regularly exceed 10 mg/l.



ECHO <u>DMR and Loading records</u> show that this facility contributed high loads of pollutants to Sally Hole Branch, including significant loads of Cadmium, Copper, Lead, Nickel, Zinc (93,562 lbs./yr. – 2023), Nitrogen (62,464 lbs./yr. – 2023), Phosphorus (89,660 lbs./yr. – 2023), and TSS (1,309,741 lbs./yr. – 2023):



EPA'S ENVIRONMENTAL ASSESSMENT

Additionally, Wayne Farms LLC – Jack Facility and Pilgrim's Pride Corp. – Enterprise were the subjects of study by EPA as part of its <u>Environmental Assessment</u>⁵ for the proposed rule. The evaluation found that, of the four point source contributors in the Double Bridges Creek watershed, these two MPP facilities contributed 99.6 percent and 99.5 percent of the Total Nitrogen and Total Phosphorus loads to the larger Double Bridges Creek watershed in 2021.

Facility	Discharge Type	Regulatory Option	Changes in Annual Pollutant Loadings (lbs/year)			
			TN	TP	TSS	CBOD
Pilgrim's Pride Corp., Enterprise	Direct	1	-104,540	-50,881	-302,255	-15,14
		2	-104,540	-50,881	-302,255	-15,14
		3	-104,540	-50,881	-302,255	-15,14
Wayne Farms LLC- Enterprise Processing	Direct	1	-190,153	0	0	-33,32
		2	-190,153	0	0	-33,32
		3	-190,153	0	0	-33,32

As shown on Table 3-5 from the Environmental Assessment, EPA's proposed options will reduce nitrogen loading from both facilities, but Total Phosphorus, TSS, and CBOD loading would only be reduced at the Pilgrim's Pride facility. Unfortunately, even EPA's most protective proposed option – Option 3 – will not control the phosphorus or TSS coming from Wayne Farms LLC–Enterprise Processing. This indicates that EPA must establish more protective ELGs than currently proposed.

OTHER FACILITIES

Based on EPA's map produced as part of this rulemaking, it appears there are additional MPP facilities in this watershed that discharge indirectly through wastewater treatment plants or via land application areas. Information about their pollution discharges is not available through ECHO, but these facilities are likely to be significant contributors of pollutants to surface waters. This category likely includes, for example:

- Wayne Farms Ozark Feed Mill in Ozark, AL
- Pilgrim's Pride Corp. Midland City Feed Mill in Midland City,
- Pilgrim's Pride Corp. of Delaw- in Enterprise, AL
- Keystone Foods, LLC Banks Feed Mill in Banks, AL
- Harrell Milling Company (ALG150058) in Hartford, AL
- Dothan Warehouse Freezer Storage in Dothan, AL
- Kelly Foods, A Division of Ben E. Keith Foods in Elba, AL
- Serv Cold in Troy, AL

ENDNOTES

https://lf.adem.alabama.gov/WebLink/DocView.aspx?id=105257912&dbid=0. Exhibit 4

¹ Geological Survey of Alabama, *Surface Quality Water Update of the Choctawhatchee, Pea, and Yellow Rivers in Southeast Alabama*, Open File Report 1804 (2018), available at: https://cpyrwma.alabama.gov/wpcontent/uploads/2018/05/2018 -March-28-Choc-Pea-Yellow-QW-with-figures.pdf. **Exhibit 1**

² ADEM, NPDES Permit No. AL0028860 for Wayne Farms LLC – Jack Facility, 1020 County Road 114, Jack AL (June 1, 2017), available at: https://lf.adem.alabama.gov/WebLink/DocView.aspx?id=31505284&dbid=0. **Exhibit 2**

³ ADEM, NPDES Permit No. AL0003697 for Pilgrim's Pride Corporation, 4693 County Road 636, Enterprise, AL (July 1, 2017), available at: https://lf.adem.alabama.gov/WebLink/DocView.aspx?id=28650174&dbid=0. **Exhibit 3**

⁴ ADEM, NPDES Permit No. AL0071285 for Keystone Foods – Eufaula Division, LLC, 57 Melvin Clark Road, Bakerhill, AL (Jan. 1, 2024), available at:

⁵ EPA, Environmental Assessment for Revisions to the Effluent Limitations Guidelines and Standards for the Meat and Poultry Products Point Source Category, EPA-HQ-OW-2021-0736-0661 (Dec. 11, 2023), available at: https://www.regulations.gov/document/EPA-HQ-OW-2021-0736-0661.