

November 25, 2024

GISTM TSF Information Publishing Tennessee Mines Young & Elmwood TSF

## Tailings Storage Facilities (TSFs) Under the Direct Management of Tennessee Mines

In effort to maintain responsible tailing management practices under the scope of the Global Industry Standard for Tailings Management (GISTM), Tennessee Mines has elected to publish information regarding the safety of the TSFs located in the Elmwood (MTN) and New Market (ETN) Communities. This information is representative of the Tennessee Mines commitment for effective tailings management to minimize impact to people, the environment, infrastructure and community.

The Tennessee Mines tailings storage facilities (TSFs) Young (ETN) and Elmwood (MTN). The Tennessee mines have made a commitment to ensure As Low As Reasonably Practicable (ALARP) principles are employed in the management of these TSFs. As part of this process, the safety factor of each TSF is estimated and the impact of a potential failure is evaluated through numerical simulations.

The TSFs are monitored through slope displacement surveys, piezometric monitoring wells, and regular review as a part of a strong quality and risk management system for all phases of the TSF lifecycle, including closure. We enforce policies, systems and accountabilities to support the safety and integrity of the TSFs to empower the Engineer of Record (EoR) and the TSF management team.

Sincerely,

Derek McCoy

Derek McCoy Responsible Tailings Facility Engineer (RTFE) Tennessee Mines





Indicator	Description
Tailings Storage Facility Name/Identifier	Young TSF
Location/Geographical Coordinates	New Market TN 36°04'49"N 83°36'24"W
Ownership	Nyrstar Strawberry Plains LLC
Status (active/in-active/closed)	Active
Date of initial operation	1995
Facility operated per design	Yes. TSF operated within approved designs and under construction for next phase lift.
Method of construction	Upstream construction of dry compacted tailings or coarse stone. Upstream 3H:1V & Downstream 2H :1V with 20 foot benches every 50 feet vertical
Current height	1140ft msl
Current Volume	5.4M m3 At current stage 3B
Max Capacity	7.4M m3. At Stage 3C.
Most recent expert review	KBJW (EoR) and Independent Tailings Review Board (ITRB) 2023
Are engineering records and design maintained on site?	Yes
Hazard classification	Moderate Risk
Hazard classification guideline	Tennessee Department of Environment and Conservation-Safe Dams Division
Has the facility failed in the past?	No
Is an Engineer of Record (EoR) retained by the site?	Yes Koontz Bryant Johnson Williams (KBJW)
Most recent failure modeling	2023 (Static & Seismic)
Closure plan present	Yes
Is climate change accounted for in design	Yes





Indicator	Description
Tailings Storage Facility Name/Identifier	Elmwood TSF
Location/Geographical Coordinates	Helms Bend TN 36°13'02"N 85°54'33"W
Ownership	Nyrstar Gordonsville LLC
Status (active/in-active/closed)	Inactive
Date of initial operation	1987
Facility operated per design	Yes. TSF operated within approved designs and under construction for next phase lift.
Method of construction	Upstream construction of dry compacted tailings or coarse stone. Upstream 3H:1V & Downstream 2H:1V with 20 foot benches every 50 feet vertical
Current height	590ft msl
Current Volume	4.99M m3
Max Capacity	5.63M m3
Most recent expert review	KBJW (EoR) and Independent Tailings Review Board (ITRB) 2023
Are engineering records and design maintained on site?	Yes
Hazard classification	Moderate
Hazard classification guideline	Tennessee Department of Environment and Conservation-Safe Dams Division
Has the facility failed in the past?	No
Is an Engineer of Record (EoR) retained by the site?	Yes Koontz Bryant Johnson Williams (KBJW)
Most recent failure modeling	2022 (Static & Seismic)
Closure plan present	Yes
Is climate change accounted for in design	Yes