Site Name: Core Fusion Waste Transfer Station
Permit Ref: EPR/WE6556AA
SMP Version: 2026
Sensitive Receptors: River Colne (Tidal), Essex University, Old Heath Primary School, Residential Areas

Hazard	Source / Receptor	Probability	Risk Management Measures	Residual Risk
Fire / Self-Heating	Combustible Waste (Neighbors / Staff)	Medium	Daily temp logs; 30-min machine cool-down; 7-day storage limit; FPP active; 24hr CCTV fire watch.	Low
Dust & Fibres	Tipping-Sorting (River Colne / Homes)	High	Misting systems; indoor sorting; rapid doors; 5mph speed limit; weekly sweeping; daily boundary checks.	Low
Noise & Vibration	Baler & HGVs (Nearby residents)	Medium	Indoor processing; acoustic concrete buffer; low-decibel electric baler; no idling; restricted hours.	Low
Water Pollution	Spills & Run-off (River Colne)	Low	Impermeable concrete; 2x interceptors; graded site; spill kits at points; staff spill response training.	Very Low
Pests & Litter	Organic Waste (Industrial units)	Low	48hr turnaround; professional pest contract; daily litter picks; security netting; daily housekeeping.	Very Low
Unpermitted Waste	Hazardous loads (Environment)	Medium	Acceptance Flow Chart; carrier license checks; visual inspection; isolated quarantine area.	Low

Climate Change Adaptation

- Flooding (Tidal/Pluvial):	Proximity to River Colne requires sandbags for roller shutters, raised electrical equipment, and designated flood wardens.
- Extreme Heat:	Increased fire-watch rotations and waste "turn-over" during ambient temperatures exceeding 25°C.

Emergency Contingency

- Plant Failure:	Immediate stop of processing if suppression or baler fails; temporary closure to managing incoming volumes.
- Accidents:	Immediate deployment of absorbent granules and drain mats; EA notification if interceptor threshold breached.