

RECOMMENDED CHANGES TO THE STORMWATER DISCHARGE PERMIT:

The North Carolina Department of Environmental Quality (NCDEQ) should issue a more stringent stormwater permit for Alcoa Badin Business Park (ABBP) in Badin, NC to protect public health and recreational use of the Yadkin River and Badin Lake. Contaminated stormwater runoff from inactive hazardous waste sites and the former smelter site continue to threaten Badin Lake and Little Mountain Creek.

Specifically, the new permit should require ABBP to:

- sample more frequently for cyanide and fluoride at regular intervals.
- use certified laboratories with testing methods and instruments sensitive enough to detect violations for all contaminants.
- monitor for a wider range of contaminants, including Polycyclic Aromatic Hydrocarbons (“PAHs”), Polychlorinated Biphenyls (“PCBs”), and heavy metals, including mercury.
- remove the source material for the hazardous pollutants prior to submission of any new stormwater permit applications in the future.

In addition, the new permit should:

- set effluent limitations for aluminum.
- prohibit Alcoa’s BBP from diverting discharges from Outfall 005 into Little Mountain Creek as a solution to meet permit limits, nor should it allow the use of any mixing zones.
- eliminate Outfalls 012 and 013 from discharging into the public access and swimming areas on Badin Lake.
- require Alcoa to remove its buried hazardous wastes from the site, thereby reducing the ongoing discharge of pollutants to Little Mountain Creek and Badin Lake.

The NC Division of Water Resources (NC DWR) should hold an in-person public hearing on the draft stormwater permit when it is issued. The hearing should provide opportunities for concerned citizens to address permit requirements, cumulative impacts of new businesses located at the facility, and environmental justice concerns.



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Alcoa-Badin Landfill



Edge of Alcoa-Badin Landfill and location of Outfall 005, which has had over 20 water quality violations for cyanide and fluoride since 2019

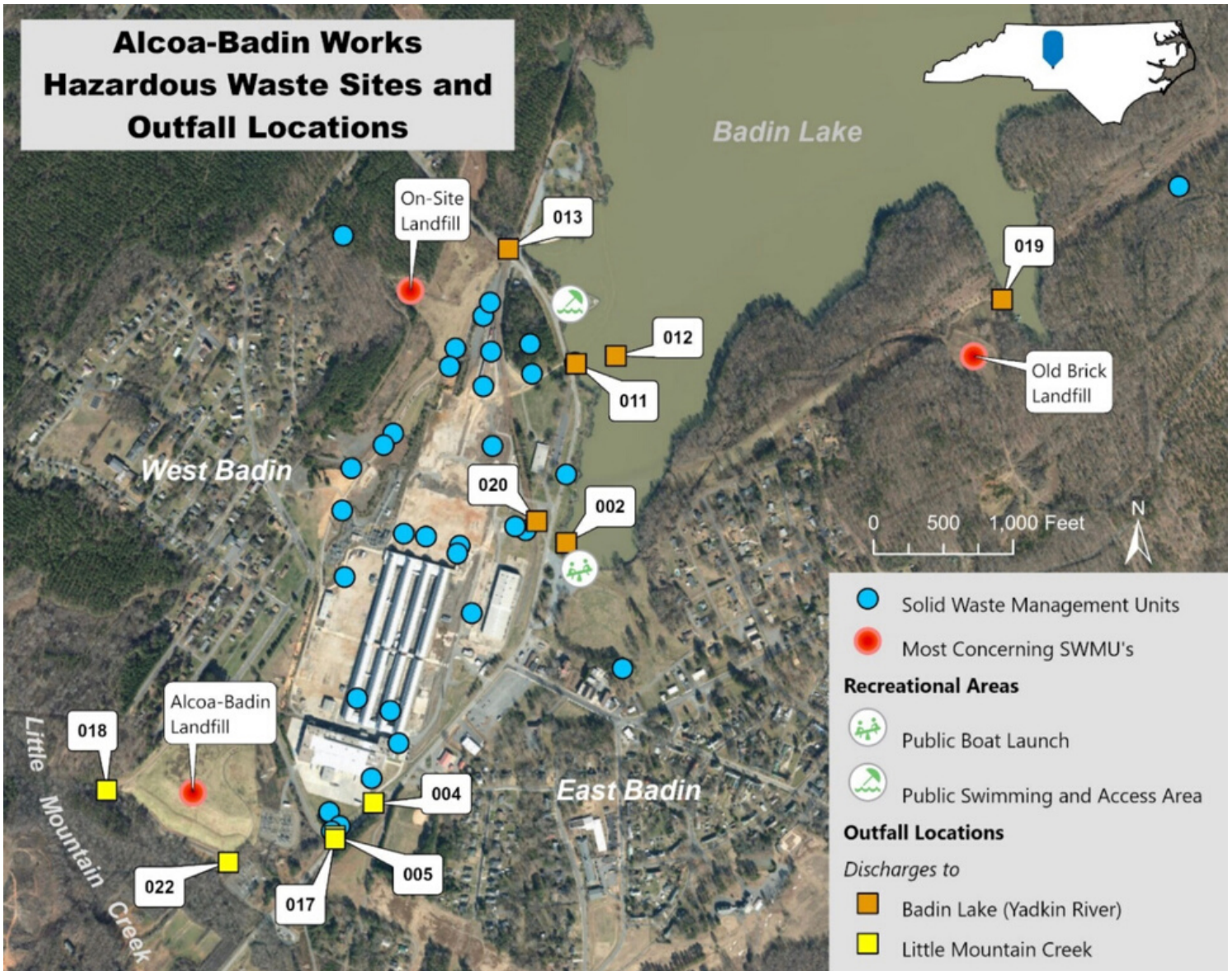


**Alcoa-Badin Business Park
in relation to Badin Lake**



**Alcoa-Badin Business Park
in relation to residential housing West Badin**

The Former aluminum smelting plant is located in close proximity to the Community of West Badin, Badin Lake, and Little Mountain Creek.



Source: Duke Environmental Law and Policy Clinic; Esri, NC CGIA, USDA FSA, GeoEye, Maxar