

# A.9 Location Information

MICHIGAN DISPOSAL WASTE TREATMENT PLANT (MDWTP)  
MID 000 724 831  
2016 PERMIT APPLICATION

**FACILITY LOCATION INFORMATION**  
**40 CFR 270.14B AND MI ACT 64 R504(1)C**

**270.14 (11) (i)**

The Michigan Disposal Waste Treatment Plant is located within the confines of Wayne Disposal Site #2 Landfill. The plant is located in section 17 of Van Buren Township, Wayne County, Michigan.

**270.14 (11) (ii)**

The State of Michigan does not appear in Appendix VI of Part 264; therefore, the facility is in compliance with seismic standards.

**270.14(11)(iii)**

Master Cell VI and the roof run-off from the MDWTP drains underground into the West Branch of Quirk Drain, via the sedimentation basin for the WDI landfill. This drain empties about one-half mile south of the sedimentation basin into Belleville Lake. This lake is man-made, created by dams along the Huron River.

The Surface water drainage basin divide between the Huron River and the Rouge River crosses Willow Run Airport about one-half mile north of the plant, thus the drainage basin in the landfill and plant area is only about one mile wide and quite small. The drainage branch for the West Branch of Quirk Drain is so small it runs intermittently. With regard to the 100 year flood threat, only Belleville (Huron River) poses a potential threat.

Contact was made, at the time of MDWTP's original application, with the Federal Emergency Management Agency, the Army Corps of Engineers - Detroit District, and the Michigan Department of Natural Resources (MDNR) - Water Management Division to gather 100 year floodplain information. All three agencies confirmed that flood insurance rate maps have not been published for Van Buren Township, Wayne County. However, we were able to get 100 year flood elevations for Belleville Lake.

No surface water drains transverse this facility. Water from Willow Run Airport is carried to Belleville Lake by either Willow Run, or eastward to ditches along Beck Road, emptying into Begole Drain. Perimeter dikes along our northern boundary divert surface water toward these drains. The Rowe and West Branch of Quirk Drains begin at our southern boundary and fall steeply to Belleville Lake. Surface water from this facility flows to the sedimentation basin, which discharges into the highest end of the West Branch of Quirk Drain.

The Army Corps of Engineers and MDNR confirmed that the 100 year floodplain elevation of Belleville Lake ranges from 654 feet at the west end to 653 feet at the east end of Belleville Lake. With a fall of 1 foot in 1/4 to 1/2 mile, it is extremely unlikely that flood waters would back up to the heads of these drains and MDWTP. Further, perimeter dikes in the hazardous waste management area have top elevations of approximately 705 feet, more than 50 feet above the 100 year flood elevation of Belleville Lake.

In summary, the small extent of tributary drainage area, the absence of drains transversing the facility and the considerable change in elevation from the site to Belleville Lake preclude the possibility of flood waters from reaching the hazardous waste management area.

**270.14 (11)(iv)**

MDWTP does not reside in the 100 year floodplain, therefore this section does not apply.