

Highlights of Tech Environmental Report on Air Quality in Saugus

Air Quality:

- In the course of the monitoring program for calendar year 2022, all evidence suggests that the facility was in compliance with its permitted conditions. (Page 1)
- The results demonstrate that even under the worst-case meteorological conditions, the emissions from the WS facility will not cause adverse effects on air quality. (Page 25)
- The maximum predicted air toxics concentrations are predicted to be safely in compliance with the Allowable Ambient Limits (AAL) and Threshold Effects Exposure Limits (TEL) guidelines and will not have an adverse impact on public health. (Page 18)
- These results are conservatively based on the facility operating 100% of the time. (Page 18)
- Table 4-5 shows the maximum predicted air quality impacts for the criteria air pollutants in 2022 based on the CEMS emissions data from WS's annual report to the MassDEP and the April 2022 stack testing report. **The predicted concentrations from the facility were added to the background concentrations and the total air quality concentrations were compared to the Massachusetts and National Ambient Air Quality Standards (MAAQS/NAAQS). The results demonstrate that the facility did not cause adverse effects on air quality, even when using the worst-case operating emission rates.** (Page 21)
- WTE facilities produce less pollution than most existing fossil fuel power plants in the United States. This is due in part to stringent air pollution control standards for large units at municipal waste combustion facilities, introduced by the United States Environmental Protection Agency (EPA) as part of the 1990 Clean Air Act mandates. (Page 3)

Compliance:

- Tech staff attended six (6) 2022 bi-monthly landfill operations inspections that include staff interviews, records reviews and a complete tour of the operations. These dates were February 24, April 20, June 22, August 24, October 26 and December 21. The inspections and subsequent report reviews indicated that the landfill was being properly operated and maintained. The ash being disposed of in the landfill had an operational cover. (Page 13)
- Our review of these reports demonstrated that the units (CEMs) are working well and that the facility has been in compliance with the regulations and requirements. (Page 7)
- WS has been diligent in reporting any concerns to the MassDEP, the Saugus BOH, and Tech, so that concerned parties can obtain information in a timely manner. (Page 25)

Monofill:

- The review of the CEMS reports demonstrates that the facility was in compliance with emissions limits for NO_x (205 ppmvd, 7% O₂), SO₂ (29 ppmvd, 7% O₂), CO (100 ppmvd, 7% O₂), and opacity (10%) in 2022. The monitored operating parameters were also in compliance. (Page 9)
- **Recent inspections of the ash handling capability at WS by MassDEP and Tech have found that the area is well maintained and well-sealed and that ash is not being released into the atmosphere. WS has continued on a series of improvement projects, designed to reduce the environmental impact of the facility and to assuage any fears of people in the community.** (Pages 22-23)