



Four alternatives which maximized the life of the existing incineration system were evaluated against multiple factors with a focus on economic considerations, sustainability, and community impacts.

Alternative 1: Fourth Incinerator



1
5
\$117
MILLION NPV

★ **Most Cost Effective & Sustainable Alternative**

This alternative constructs a fourth incinerator with energy recovery and air pollution control equipment similar and parallel to the existing incinerators. The fourth incinerator was found to be the most cost effective and sustainable alternative with the lowest community impact and will improve the reliability of the wastewater treatment system.

Alternative 2: Digest/Incinerate



1
5
\$234
MILLION NPV

This alternative constructs anaerobic digesters with energy recovery. Digested solids are dewatered and fed to the existing incinerators. This alternative's energy production was offset by supplemental fuel needed for incineration.

Alternative 3: Digest/Dry/Sell



1
5
\$279
MILLION NPV

This alternative constructs anaerobic digesters with energy recovery and dryers. Digested solids are dewatered and dried to pellet type product and sold as a fertilizer. This alternative produces the least amount of net energy and twice the amount of solids to be disposed of.

Alternative 4: Digest/Land Apply



1
5
\$325
MILLION NPV

This alternative constructs anaerobic digesters with energy recovery. Digested solids are dewatered and land applied. This alternative produces the most amount of net energy and has three times the amount of solids to be disposed of.

Learn more

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MCES Mission

Provide wastewater services and integrated planning to ensure sustainable water quality and water supply for the region.