

OLMSTED COUNTY WASTE-TO-ENERGY FACILITY ENVIRONMENTAL PERMITTING FOR A FACILITY EXPANSION

Rochester, Minnesota

CLIENT:

Olmsted County, MN

PROJECT FEATURES:

- Expansion of existing facility from two to three combustion units
- Federal and MPCA air permitting for the expansion project
- Determination of air emission rates for MPCA health risk assessment
- Materials Separation Plan and Siting Analysis under the Federal New Source Performance Standards



PROJECT REFERENCES:

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Serving on a consultant team, ARI is currently providing key air-permitting services for an ongoing expansion project at the County's existing waste-to-energy facility. The 250 TPD expansion project entails the addition of a third, mass-burn unit. ARI has developed preliminary design data needed for the air permitting, including the ultimate and proximate analyses for the solid waste, as well as design values for the flue gas flow rate and temperature. Currently, ARI is preparing the analysis of Best Available Control Technology (BACT), under Federal "PSD" air-permitting rules. The focus in

this regard is BACT requirements for nitrogen oxides, and the key issue is whether Selective Non-Catalytic Reduction (SNCR) will be shown to be cost-effective as BACT, or not, for a 250 TPD unit. ARI is also determining the emission rates of all regulated air pollutants for use in air impact modeling, and is developing estimates of toxic air pollutant emissions for use in health risk assessment. Finally, ARI is preparing the Materials Separation Plan and the Siting Analysis that are required for the plant expansion under Federal New Source Performance Standards (NSPS) for municipal waste combustors.

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