

City of Minot

TO: Mayor Shaun Sipma
Members of the City Council

FROM: Dan Jonasson, Director of Public Works

DATE: March 30, 2021

SUBJECT: Approval to participate in a South Dakota School of Mines waste study

I. RECOMMENDED ACTION

1. Recommend approval of the attached letter to participate in a study with the South Dakota School of Mines for a MSW study for waste to energy.

II. DEPARTMENT CONTACT PERSONS

Dan Jonasson, Director of Public Works	857-4140
Jason Sorenson, Asst. Director of Public Works	857-4140

III. DESCRIPTION

A. Background

Public Works was contacted by Anu Shende, Associate Research Professor of Chemical and Biological Engineering from the South Dakota School of Mines and Technology to participate in a Department of Energy funded study, which will look at heterogeneity of MSW waste and its ability to be used for a waste to energy source.

B. Proposed Project

- IV.** The proposal is to study micro and macro level heterogeneity in non-recyclable MSW received by landfills located across 8 Northwestern states (SD,ND,IA,ID,MT,MN,WY and NE), 2 coastal states (CA, VA) and TX. This study includes analysis of MSW samples from representative (small, midsize and large) landfills from each of the 11 states. They require less than 5-gallon sample per shipment and no more than once or twice every month for a duration of 8-12 months. Details on sample size and shipment schedule will be supplied by the Idaho National lab. They will cover the labor and shipping costs of sampling and shipping

A. Consultant Selection

N/A

V. IMPACT:

A. Strategic Impact:

B. Service/Delivery Impact:

C. Fiscal Impact:

None – cost will be reimbursed.

V. ALTERNATIVES

VI. TIME CONSTRAINTS

VII. LIST OF ATTACHMENTS

- A. Letter of support and participation