

COUNCIL ACTION FORM

SUBJECT: RESOURCE RECOVERY PLANT MAGNET INSTALLATION

BACKGROUND:

The Resource Recovery Plant utilizes an electro-magnetic conveyor to recover more than 2,000 tons of ferrous metals from the municipal solid waste stream each year. This piece of equipment was originally installed in the plant in 1975, and although its components have been rebuilt several times, its recovery rate and overall efficiency are continuing to diminish. Staff has determined that an electro-magnetic drum can be an effective replacement. An electro-magnetic drum requires less maintenance expense, operates at a cooler temperature, and has an improved recovery rate.

In September 2008, Council approved the purchase of a 48-inch x 72-inch electro-magnetic drum from Eriez Manufacturing. Staff contracted with RRT Engineering & Design to verify and/or design any modifications needed to the structural steel to support this new electro-magnetic drum, to create installation instructions, and to provide an engineer's estimate for the project. On April 14, 2009, City Council approved the plans and specifications for installation of the electro-magnetic drum and authorized May 6, 2009, as the date of letting.

On May 6, 2009, bids for installation of the magnet were opened for this project. One bid was received as follows:

<u>Bidder</u>	<u>Lump Sum Bid Amount</u>
Engineer's Estimate	\$56,116.00
A-Lert Construction Services, Fredonia, KS	\$19,840.00

Design/engineering services for this work cost \$15,500. The electro-magnetic drum cost \$73,191 and the steel needed for installation cost \$2,200. With the low bid of \$19,840 for installation of the replacement electro-magnetic drum, the total expenses for this project will be approximately \$111,000. Staff had previously identified savings in contracts for hauling ferrous metals, hauling rejects, and reject disposal totaling \$129,000 for funding this project.

ALTERNATIVES:

1. Award a contract for installation of the Resource Recovery Plant's electro-magnetic drum to A-Lert Construction Services of Fredonia, Kansas in the amount of \$19,840.00.
2. Delay or do not proceed with this project.

MANAGER'S RECOMMENDED ACTION:

The replacement of the Resource Recovery Plant's inefficient electro-magnetic conveyor is necessary to reduce maintenance expense, reduce operating temperature, and improve the recovery rate for ferrous metals. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, thereby awarding a contract for installation of the electro-magnetic drum to A-Lert Construction Services of Fredonia, Kansas in the amount of \$19,840.00.