

**CITY COUNCIL
COMMUNICATION:**

ITEM _____

**OFFICE OF THE CITY MANAGER
CITY OF DES MOINES, IOWA**

02-166

SYNOPSIS -

AGENDA:

Wastewater Reclamation Facility's (WRF) new Bio-Solids Storage Facility has been in service since January 22, 2002. The facility is designed for the bio-solids to be dumped over a three-foot high wall from a distance of two feet eight inches. A wheel chock system has been incorporated into the design to protect the walls of the structure. The WRF requested competitive bids for a side dump trailer. This was sent to nine potential bidders with only RTL Equipment (Rob Bonsterrer, President, 5612 Gateway Drive, Grimes, Iowa) responding.

APRIL 8 2002

SUBJECT:

BIO-SOLIDS TRAILER

TYPE:

FISCAL IMPACT -

RESOLUTION
ORDINANCE
RECEIVE/FILE

\$48,087 funded from ENG990000, Fund EN267, Account 544090, Year 2002.

SUBMITTED BY:

RECOMMENDATION -

WILLIAM STOWE
WRF MANAGER,
PUBLIC WORKS
DIRECTOR

Approval.

BACKGROUND -

An average of 200 tons of bio-solids is generated daily requiring storage. Currently, bio-solids are being stored in both the new storage and the old existing facility. A tractor with side dump can be driven alongside the dumping area of the storage facility and empty the contents into the storage area without any backing of the truck and without any spillage problems of a tailgate. The dumping size of the tub allows for dumping access to the entire area of the facility.

Push out trailers, live floor trailers, side dump trailers, and conveyor bottom trailers were investigated, and it was found that:

1 A conveyor floor trailer is considerably higher in initial cost and

maintenance cost than a side dump trailer

2. A live floor trailer would not empty the bio-solids in adequate time in severe cold weather, and also will be higher in initial cost and maintenance cost than a side dump trailer.

3. A push out trailer will not properly unload our bio-solids. It will push over the sides before emptying.

4. Our current end dump trailers would only dump cleanly into the storage area with a modification to the tailgate area, and there would still be the issue of backing up to the dump area.

The side dump trailer meets the current and future needs of the bio-solids processing system.
