



TO: Honorable Mayor & Members of the
Fort Lauderdale City Commission

FROM: Lee R. Feldman, ICMA-CM, City Manager

DATE: August 19, 2014

TITLE: Motion to approve a proprietary purchase for polymer pump skids for the
George T. Lohmeyer (GTL) Wastewater Treatment Plant - \$79,231

Recommendation

It is recommended that the City Commission approve the proprietary purchase of ten polymer pump skids for the GTL Wastewater Treatment Plant from Pulsafeeder, Inc. (Pulsafeeder) in the amount of \$79,231.

Background

The Utilities Division of Public Works is responsible for the treatment of approximately 35,000 tons of bio-solids that are produced and disposed of each year. When preparing the bio-solids for disposal, a polymer must be applied to thicken them. During the processing of these biosolids, an anionic polymer is applied to assist in their thickening before entering the plant's belt press system. The pumping system delivers the polymer to thicken the watery biosolids from an initial 1 to 3% solution to a finished biosolid at approximately 18% solids.

The pumping system at GTL that delivers the polymer is deteriorated and is well beyond its useful life. The polymer pump unit which consists of polymer pump, gearbox, coupling, AC electric motor, and mounting base plate will be supplied by Pulsafeeder, Inc. who is the original polymer pump unit manufacturer. This polymer pump unit combination has proven performance, compatibility, and reliability within the GTL facility with a newly designed control panel. These units are manufactured as 'drop in' assemblies that require no extra piping modifications at the plant saving time and manpower. If a different pump is used the layout would need to be altered and additional cost would be incurred to secure engineering services to re-design for the new layout. This would incur additional expenses to re-route the inlet and outlet pipes to the pumps as well as the electrical feed to the motor.

The City, in conjunction with the wastewater consultant CDM Smith, Inc., annually prepares a "Renewal and Replacement Requirement Analysis (R&R)" which includes the replacement cost of these polymer pump skids. Installation of these pump skids will

be performed by plant personnel to reduce the cost per unit in the annual R&R. The pump skids will be manufactured and supplied by Pulsafeeder which is the original pump manufacturer.

Staff recommends purchasing the pump skids directly from Pulsafeeder as the sole provider of this equipment in Florida. In accordance with the City's Code of Ordinances, Section 2-189.(a), proprietary purchases exceeding \$25,000 require City Commission approval.

Resource Impact

There will be a fiscal impact to the City in the amount of \$79,231. Funds are available in the regional wastewater operations account.

<i>Funds available as of July 24, 2014</i>					
ACCOUNT NUMBER	INDEX NAME (Program)	OBJECT CODE/ SUB-OBJECT NAME	AMENDED BUDGET (Object Code)	AVAILABLE BALANCE (Object Code)	PURCHASE AMOUNT
451-PBS670503- 6499	LOHMEYER REGIONAL PLANT OPERATIONS	CAPITAL OUTLAY/ CAPITAL EQUIPMENT	\$300,000	\$244,971	\$79,231
PURCHASE TOTAL					\$79,231

Strategic Connections:

This item is a *Press Play Fort Lauderdale Strategic Plan 2018* initiative, included with the Infrastructure Cylinder of Excellence, specifically advancing:

- Goal 2: Be a sustainable and resilient community.
- Objective 1: Proactively maintain our water, wastewater, road and bridge infrastructure.

This item advances the *Fast Forward Fort Lauderdale 2035 Vision Plan: We are Ready*.

Attachments:

- Exhibit 1 – Proposal
- Exhibit 2 - Picture

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