



## Interoffice Memorandum

September 16, 2019

TO: Mayor Jerry L. Demings  
and the Board of County Commissioners

FROM: *CM* Carrie Mathes, Manager, Procurement Division

CONTACT: Michael Hudkins, Manager, Water Reclamation Division  
(407) 254-9685

SUBJECT: Ratification of Emergency Purchase Order M98088, Liquid Emulsion Type Polymer for Centrifuge at South Water Reclamation Facility (SWRF)

### ACTION REQUESTED:

Ratification of Emergency Purchase Order M98088, Liquid Emulsion Type Polymer for Centrifuge at South Water Reclamation Facility (SWRF), with Polydyne, Inc., in the amount of \$154,000.

### PROCUREMENT:

The SWRF is now operating their new centrifuge and as a result, need to procure polymer until a new polymer term contract is competitively solicited and executed. Liquid polymer is used by the SWRF to thicken the sludge for the digestion process and to dewater the biosolids that are transported from the SWRF for land application at Florida Department of Environmental Protection approved sites.

### FUNDING:

Funding is available in account number 4420-038-1351-4153.

### APPROVALS:

The Water Reclamation Division concurs with this request.

### REMARKS:

On June 18, 2019, the Board approved award of Contract #Y19-105 for liquid polymer for the SWRF to be used for the gravity belt thickeners (GBT) and belt filter presses (BFP). The centrifuge was in the process of being installed and was not ready for operation. Despite the fact that a contract was established, the formula for this polymer is not effective for the centrifuge application. GBTs and BFPs operate at a much lower force than a centrifuge, which operates at 2500 revolutions per minute (rpms). The GBT polymer is "low shear" polymer and is not as effective at the high shear rate of the centrifuge. The "high shear" centrifuge polymer stays together at high speed and is able to bind to the sludge better, even as high rpms.

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The centrifuge was installed as part of the facility's Phase V project, and there are specific performance criteria that must be met and demonstrated for this installation. The polymer used to run the GBT and BFP process will not meet the performance criteria for testing the new centrifuge. The price quoted at \$1.10 per pound of polymer is reasonable and compares to the per pound price of polymer on Contract #Y19-105. Polydyne, Inc. currently supplies the polymer for SWRF and has a satisfactory record of performance. The emergency supply is anticipated to last three months.

Emergency quotes were solicited by the Procurement Division and are tabulated as follows:

<b>Quote Received</b>	<b>Amount</b>
Polydyne, Inc.	\$154,000
Solenis, LLC	No Quote
Marubeni Specialty Chemicals, Inc.	No Quote

A query from staff to potential quoters that declined to compete on this solicitation resulted in the following:

Solenis, LLC: The products they had tested for the GBTs and BFPs would not work for the centrifuge application.

Marubeni Specialty Chemicals, LLC: Did not submit a timely quote. The vendor was sent follow-up emails regarding this emergency quote on two occasions.