

AN ORDINANCE BY CITY UTILITIES COMMITTEE AUTHORIZING THE CHIEF FINANCIAL OFFICER TO AMEND THE FY 2014 WATER AND WASTEWATER RENEWAL AND EXTENSION FUND (5052) BUDGET IN THE AMOUNT OF THREE MILLION DOLLARS AND ZERO CENTS (\$3,000,000.00) TO TRANSFER FUNDS FROM THE GENERAL RESERVE FOR APPROPRIATIONS AND ADD FUNDS TO APPROPRIATIONS FOR THE R. M. CLAYTON COMPLIANCE UPGRADES-3 PROJECT; AND FOR OTHER PURPOSES.

Review List:

| | | |
|--|-----------|---------------------|
| Pamela Holmes | Completed | 11/05/2013 8:01 AM |
| Jo Ann Macrina | Completed | 11/05/2013 11:23 AM |
| Patrick McShane | Completed | 11/05/2013 12:19 PM |
| Adam Smith | Completed | 11/05/2013 2:48 PM |
| Mayor's Office | Completed | 11/05/2013 3:15 PM |
| Office of Research and Policy Analysis | Completed | 11/05/2013 3:27 PM |
| City Utilities Committee | Pending | |
| Atlanta City Council | Pending | |
| Mayor's Office | Pending | |

| | |
|---|--------------------|
| Certified by Presiding Officer | Certified by Clerk |
| | |
| Mayor's Action <i>See Authentication Page Attachment</i> | |

**AN ORDINANCE
BY CITY UTILITIES COMMITTEE**

AN ORDINANCE BY CITY UTILITIES COMMITTEE AUTHORIZING THE CHIEF FINANCIAL OFFICER TO AMEND THE FY 2014 WATER AND WASTEWATER RENEWAL AND EXTENSION FUND (5052) BUDGET IN THE AMOUNT OF THREE MILLION DOLLARS AND ZERO CENTS (\$3,000,000.00) TO TRANSFER FUNDS FROM THE GENERAL RESERVE FOR APPROPRIATIONS AND ADD FUNDS TO APPROPRIATIONS FOR THE R. M. CLAYTON COMPLIANCE UPGRADES-3 PROJECT; AND FOR OTHER PURPOSES.

WHEREAS, the City of Atlanta owns and operates a water and wastewater system; and

WHEREAS, the City of Atlanta, Department of Watershed Management has identified, in connection with the Capital Improvement Program, the need to fund certain costs from the General Reserves; and

WHEREAS, the R. M. Clayton Compliance Upgrades-3 Project includes, but is not limited to, the replacement of non-operational thickening centrifuges, polymer feed systems associated with the thickening centrifuges, obsolete control systems for the dewatering centrifuges, and needed safety upgrades; and

WHEREAS, these funds should be transferred from the General Reserves for Appropriations to facilitate the use of the funds for the R. M. Clayton Compliance Upgrades-3 Project.

THE CITY COUNCIL OF THE CITY OF ATLANTA, GEORGIA, HEREBY ORDAINS *as follows*:

Section 1: That the Chief Financial Officer is authorized to amend the FY 2014 Water and Wastewater Renewal and Extension Fund (5052) Budget as follows:

TRANSFER FROM APPROPRIATIONS

| | | | | |
|--|---|-----------------------------------|-------------------|--|
| The amount of: | \$3,000,000.00 | | | |
| FDOA: | | | | |
| <u>Water & Wastewater R&E Fund</u> | <u>NDP Reservation of Fund Appropriations</u> | <u>Reserve Conversion Account</u> | <u>Accounting</u> | |
| 5052 | 200101 | 5999901 | 1512000 | |

ADD TO APPROPRIATIONS

| | | | | |
|--|--|--|---|------------------------|
| The amount of: | \$3,000,000.00 | | | |
| PTAEO: | | | | |
| <u>R M Clayton Compliance Upgrades-3</u> | <u>R M Clayton Centrifuge Replacement TASK</u> | <u>Water & Wastewater R&E Fund</u> | <u>Facilities Other Than Bldgs/Infrastructure</u> | <u>City of Atlanta</u> |
| 17111674 | 101 | 505221391 | 5414002 | COA |
| | | | | |
| FDOA: | | | | |
| <u>Water & Wastewater R&E Fund</u> | <u>DWM Treatment Plant- R. M. Clayton</u> | <u>Projects and Grants Budget</u> | <u>Sewage Treatment Plants</u> | |
| 5052 | 170204 | 5999999 | 4335000 | |
| | | | | |
| <u>R M Clayton Compliance Upgrades-3</u> | <u>Water & Wastewater R&E Fund</u> | | | |
| 111674 | 21391 | | | |

Section 2: That appropriations in the Water and Wastewater Renewal and Extension Fund (5052) Budget be transferred as follows:

ADD TO AWARD INSTALLMENT

| | | | | |
|-----------------------|-----------------------|--|--|--|
| The amount of: | \$3,000,000.00 | <u>R&E Water & Wastewater Fund</u> | | |
| | | 505221391 | | |

Section 3: That all ordinances and parts of ordinances that are in conflict with the provisions of this ordinance are waived to the extent of the conflict.

Part II: Legislative White Paper: (This portion of the Legislative Request Form will be shared with City Council members and staff)

A. To be completed by Legislative Counsel:

Committee of Purview: City Utilities

Caption: AN ORDINANCE AUTHORIZING THE CHIEF FINANCIAL OFFICER TO AMEND THE FY 2014 WATER AND WASTEWATER RENEWAL AND EXTENSION FUND (5052) BUDGET IN THE AMOUNT OF THREE MILLION DOLLARS AND ZERO CENTS (\$3,000,000.00) TO TRANSFER FUNDS FROM THE GENERAL RESERVE FOR APPROPRIATIONS AND ADD FUNDS TO APPROPRIATIONS FOR THE R. M. CLAYTON COMPLIANCE UPGRADES-3 PROJECT; AND FOR OTHER PURPOSES.

Council Meeting Date: November 18, 2013

Requesting Dept.: Watershed Management

B. To be completed by the department:

1. Please provide a summary of the purpose of this legislation (Justification Statement).

Example: *The purpose of this legislation is to anticipate funds from a local assistance grant to purchase child safety seats.*

The purpose of this legislation is to authorize the CFO to amend the FY 2014 Budget Water and Wastewater Renewal and Extension Fund (5052) in the amount of \$3,000,000.00 to transfer funds from General Reserve for Appropriation and add to Appropriation funds for the following project:

the R. M. Clayton Compliance Upgrades-3 Project for various improvements to the water reclamation center. Scope of work entails replacing a non-operational thickening Centrifuge, at the end of its useful life, with a new unit (which is of the same manufacture and specifications as that being installed with the Compliance Upgrades II capital project); replace the polymer feed system associated with the thickening centrifuges; replace the obsolete control system for the dewatering centrifuge; safety upgrades as needed, including demolition of unsafe structures and removal of unusable equipment.

2. Please provide background information regarding this legislation.

Example: *The task force of homelessness conducted a study regarding homelessness, its impact and consequences on the City. This resolution reflects the Mayor's desire to open a twenty-four hour center that will respond to the needs of the homelessness in Atlanta.*

The City of Atlanta Department of Watershed Management has identified, in connection with the Capital Improvement Program (CIP), the need to fund certain costs from the Water and Wastewater Renewal and Extension Fund (5052) to facilitate projects.

3. If Applicable/Known:

- (a) **Contract Type (e.g. Professional Services, Construction Agreement, etc):** N/A
- (b) **Source Selection:** N/A
- (c) **Bids/Proposals Due:** N/A
- (d) **Invitations Issued:** N/A
- (e) **Number of Bids:** N/A
- (f) **Proposals Received:** N/A
- (g) **Bidders/Proponents:** N/A
- (h) **Term of Contract:** N/A

4. Fund Account Center (Ex. Name and number): Various

Fund: _____ Account: _____ Center: _____

5. Source of Funds: Example: Local Assistance Grant

FDOA: \$3,000,000.00; 5052 (DWM Water & Wastewater RNE Fund) 200101 (NDP Reservation of Funds Appropriations) 5999901 (Reserve Conversion Account) 1512000 (Accounting)

6. Fiscal Impact: N/A

Example: This legislation will result in a reduction in the amount of _____ to Fund Account Center Number _____.

7. Method of Cost Recovery: N/A

Examples:

- a. *Revenues generated from the permits required under this legislation will be used to fund the personnel needed to carry out the permitting process.*
- b. *Money obtained from a local assistance grant will be used to cover the costs of this Summer Food Program.*

This Legislative Request Form Was Prepared By: Tamika Gray



OES- CAPITAL PROJECTS MANAGEMENT DIVISION

PROJECT INFORMATION OVERVIEW

RM Clayton WRC Centrifuge Replacement

PROJECT JUSTIFICATION: The City and the Department of Watershed Management aim to restore Centrifuge capacity at RM Clayton Water Reclamation Facility to permitted capacity.

Biological treatment is the primary process for pollution prevention at a sewage treatment plant. In modern plants biological treatment occurs in aeration basins where microorganisms metabolize biodegradable material, converting the waste substrate into cellular mass that can then be removed by subsequent treatment steps. The microorganisms form a solid mass (biomass) that is settled out in the final clarification step before sand filtration, disinfection and discharge.

A portion of the biomass is reused in the aeration basins as "restock" to grow and multiply with the incoming waste material. The remaining biomass removed from the water stream and not needed is "wasted" or removed from the treatment system. Removal is necessary to reduce the amount of solids in the plant, prevent overgrowth of microorganisms, and ultimately to prevent solids discharges that are over the design capacity of the final clarifiers and sand filters. If unable to "waste" or remove the solids, they build up in the treatment unit, the microorganisms start dying of starvation, releasing the nutrients and can overwhelm the final treatment units, leading to potential permit violations.

The "wasted" or removed biomass is first thickened in centrifuges (Twas Centrifuges) before it is added to the digestion process for further microorganism activity. The Digestion process reduces the overall biomass and stabilizes the waste for dewatering in Centrifuges and incineration while generating the biogas (Methane) burned for energy in the Energy Cogeneration Unit.

Routine maintenance and periodic refurbishment can extend the life of centrifuges, but centrifuges have a limited economic life, shortened at RM Clayton facility because of abrasive grit in the plant's sludge. As efficiency degrades, additional chemical treatment is utilized to compensate for the loss of mechanical treatment. The Twas Centrifuge for replacement has now been in place beyond its attributed life. The Dewatering Centrifuges are still within their attributed economic life; however, the control system that operates the centrifuges is now obsolete and repair parts are no longer available reducing the reliability of the system below permitted firm capacity. Therefore the controls must be replaced as they are no longer reliable or repairable.

As a consequence of this construction project we regain firm unit treatment capacity, reduce chemical costs, and gain reliability (better margins of safety) for meeting permit limits.

PROJECT SCOPE: Replace a non-operational Twas Centrifuge with a duplicate of the Flottweg Centrifuge installed as part of the Compliance Upgrades Phase II. Replace existing end of life Twas polymer system. Replace obsolete control system on Dewatering centrifuges for reliability and improved performance. Safety improvements.

DESIGN ANALYSIS/CONCERNS: None.



OES- CAPITAL PROJECTS MANAGEMENT DIVISION

CONSTRUCTION ANALYSIS/CONCERNS: This work has to be accomplished while WRC remains in full operating mode, and thus must be sequenced for the plant to remain in compliance throughout.

COMMUNICATION HIGHLIGHTS: DWM is taking care to maintain the public's infrastructure and sustain asset value, while improving the quality of life of its ratepayers. We expect reduced power bills, reductions in chemical usage, and improved reliability in meeting pollution controls on the water produced (i.e., improved compliance with discharge limits). Note that talented staff writing the specifications for this work reduced overall project cost by avoiding the engagement of an outside consultant to prepare bid documents.

PROJECT STATUS: Awaiting funding.

PROJECT SCHEDULE: Project will be ongoing over the course of twelve months.

PROJECT COSTS: Anticipated obligations of \$3,000,000 in FY2014 at RM Clayton WRC

TRANSMITTAL FORM FOR LEGISLATION

TO: MAYOR'S OFFICE

ATTN: CANDACE L. BYRD

Dept.'s Legislative Liaison: Maisha L. Wood

Contact Number: 404-330-6887

Originating Department: Watershed Management

Committee of Purview: City Utilities

Chief of Staff Deadline: October 25 2013

Anticipated Committee Meeting Date: November 12, 2013

Anticipated Full Council Date: November 18, 2013

Legislative Counsel's Signature: [Signature]

Commissioner's Signature: [Signature]

Chief Financial Officer: [Signature]

Chief Information Officer Signature (for IT Procurements) n/a

Chief Procurement Officer Signature: n/a

CAPTION

AN ORDINANCE AUTHORIZING THE CHIEF FINANCIAL OFFICER TO AMEND THE FY 2014 WATER AND WASTEWATER RENEWAL AND EXTENSION FUND (5052) BUDGET IN THE AMOUNT OF THREE MILLION DOLLARS AND ZERO CENTS (\$3,000,000.00) TO TRANSFER FUNDS FROM THE GENERAL RESERVE FOR APPROPRIATIONS AND ADD FUNDS TO THE R. M. CLAYTON COMPLIANCE UPGRADES-3 FOR THE IMPROVEMENT OF CENTRIFUGE RELATED EQUIPMENT AND THE REMOVAL OF UNSAFE STRUCTURES AND REMOVAL OF UNUSABLE EQUIPMENT AT THE FACILITY; AND FOR OTHER PURPOSES.

FINANCIAL IMPACT: (if any) (\$3,000,000.00)

Mayor's Staff Only

Received by CPO: _____
(date)

Received by LC from CPO: _____
(date)

Received by Mayor's Office: [Signature] 10-25-13
(date)

Reviewed by: [Signature]
(date)

Submitted to Council: _____ (date)