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|  <p>CLAYTON COUNTY<br/><b>Water</b><br/>AUTHORITY</p> <p>1600 Battle Creek Road, Morrow, GA 30260</p> | <b>Water and Wastewater Treatment Chemicals</b> |   |
|  | <b>ADDENDUM 1</b>                               |   |
|  | BID NUMBER                                      | 2019-WP-02  |
|  | BID OPENING DATE                                | Wednesday, February 6, 2019 at 2:00 p.m. local time |
| ADDENDUM DATE  |   |   |
| <b>ADDENDUM MUST BE SIGNED, DATED AND INCLUDED IN YOUR BID RESPONSE.</b>   |   |   |

**QUESTIONS:**

- 1. I would like to request the previous bid results for Ferric Sulfate and the current price Clayton County Water Authority is paying for this chemical.**

Answer: Last year's bid results are provided on pages 3-4 of this Addendum.

- 2. Would it be possible to obtain the bid tab from last years bid?**

Answer: Last year's bid results are provided on pages 3-4 of this Addendum.

- 3. May I have the Bid Tabulation for your last closing bids for Water Treatment Chemicals?**

Answer: Last year's bid results are provided on pages 3-4 of this Addendum.

- 4. I am writing to you today in regards to the bid for water treatment chemicals specifically the bid for the Cationic Polymer:**


**4.a Are references for the bid required?**

Answer: Refer to Division 2 Section 3 – Bid Submittals of the RFB documents.

**4.b What is the process of scheduling a jar test and industrial trial? Where will the tests be performed and what is the lead time required to schedule a test?**

Answer: The Clayton County Water Authority currently has five (5) treatment facilities that use a polymer product in treating their waste solids: Two (2) water production facilities, and three (3) water reclamation facilities. The characteristic of sludges treated at each facility is unique to that facility. Therefore, any testing results will apply only to the facility where testing takes place.

Vendors are encouraged to bring their polymer/chemical products to our facilities and run a series of tests to determine which product(s) they would like to run through our performance evaluation process. As always, the polymer/chemical product(s) CCWA is currently running will be the competition. The test will have two phases and both phases must be completed successfully at the sole discretion of CCWA for approval as a polymer/chemical to be used in our Water Production and

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Water Reclamation facilities. Testing will run from November through July 31, each year. Any and all polymer/chemical product(s) deemed “successful” will be included in our Annual Chemical RFB. Each vendor wanting to participate in the polymer/chemical performance evaluation must first submit the request to each facility per the form provided on page 6 of this Addendum.


### 1.1 Performance Evaluation Process

1.1.1 Phase 1: The vendor must, at their expense, supply five (5) gallon pail of the product(s) of their choice and run an approximately six (6) to eight (8) hour performance evaluation test. CCWA staff in conjunction with the vendor will monitor and document the performance. If the product is close to the performance of what CCWA’s current product being used the vendor may elect to move to Phase 2 of the performance evaluation process.

1.1.2 Phase 2: The vendor must, at their expense, supply a tote of the same product for the next and second round of an extended performance evaluation run of approximately five (5) days. At the end of this evaluation CCWA staff will determine if the product supplied performs sufficiently to be used in our Water Reclamation system.

1.1.3 Evaluation Criteria: The following criteria will be used to determine effectiveness of the product(s) used in the Phase 1 and Phase 2 testing:

- Pounds per ton – This is how many pounds of polymer/chemical it takes to treat one ton of dry solids.
- Cake moisture content – The amount of moisture left in cake after it has been pressed. Dryer cakes will cut natural gas consumption and increase production.
- Cost per pound of chemical.
- Performance – CCWA staff will evaluate the product as it mixes in the return pellet mixers. All products have different formulations and molecular charges and over the years CCWA staff has determined that we need a product that blends well in the mixers to assure product quality and maximum performance. All performance evaluation test results will be shared with the vendor.

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**4.c From your bid documents I see that you have listed chemicals from particular manufacturers. Will offsets to these products be accepted in the bid? If so what do you require in terms of documentation and testing.**

Answer: Listed chemicals specified in the Bid will only be accepted.

**5. I am following up with a question regarding the Copper Sulfate on your bid request. Can you please provide the ship locations that you would need the copper sulfate shipped to and the estimated quantities per order.**

Answer: The shipping locations are located in Jonesboro, Hampton and Stockbridge Georgia. Estimated quantities vary per order per location.

|  |  |
|--|--|
| <i><b>Acknowledgment of receipt of this addendum must be signed and included in your bid response.</b></i> |  |
| COMPANY NAME   |  |
| SIGNATURE  |  |
| DATE   |  |



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# Water and Wastewater Treatment Chemicals

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|                             | 1                       | 2                          | 3                  | 4                                 | 5                                   | 6                                       | 7                       | 8                             | 9                           | 10                   | 11                                    | 12                                    |
|-----------------------------|-------------------------|----------------------------|--------------------|-----------------------------------|-------------------------------------|---|-------------------------|-------------------------------|-----------------------------|----------------------|---------------------------------------|---------------------------------------|
|                             | Liquid Aluminum Sulfate | Dense Soda Ash             | Bulk Hydrated Lime | Liquid Lime 30% Calcium Hydroxide | Powdered Activated Carbon 50 lb bag | Powdered Activated Carbon 1,000 lb sack | Sodium Silica Fluoride  | Copper Sulfate Medium Crystal | Phosphoric Acid 36% PO4     | Sodium Hydroxide 25% | Sodium Hypochlorite 12.5% 55 gal drum | Sodium Hypochlorite 12.5% Bulk tanker |
|                             | /dry ton                | /lb                        | /lb                | /lb                               | /lb                                 | /lb                                     | /lb                     | /lb                           | /gal                        | /lb                  | /gal                                  | /gal                                  |
| AFFINITY CHEMICAL, LLC      | 285.50                  |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| ALLIED UNIVERSAL CORP       |                         |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       | 0.71700                               |
| AZZURE WATER SERVICES       |                         |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| BRENTAG MID-SOUTH           |                         | 0.24000                    |                    |                                   | 0.59000                             | 0.59000                                 | 0.70500                 | 1.6000                        | 3.51000                     | 0.22000              | 1.45000                               | 0.63900                               |
| BURNETT LIME                |                         |                            |                    | 0.05100                           |                                     |   |                         |                               |                             |                      |                                       |                                       |
| C & S CHEMICALS             | 350.00                  |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| CARMEUSE                    |                         |                            | 0.108275           |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| CARUS CORP.                 |                         |                            |                    |                                   |                                     |   |                         |                               | 2.29500                     |                      |                                       |                                       |
| CEDAR CHEM                  |                         |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| CHEMRITE                    |                         |                            | 0.09590            |                                   |                                     |   |                         | 1.84000                       | 2.51800                     |                      |                                       |                                       |
| CHEMTRADE CHEMICALS         | 219.00                  |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| CHENEY LIME COMPANY         |                         |                            | 0.10120            |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| COLONIAL CHEMICAL SOLUTION  |                         | 0.23000                    |                    | 0.04400                           |                                     |   |                         | 1.64000                       | 2.17000                     | 0.14600              | 1.64000                               |                                       |
| DPC ENTERPRISE              |                         |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       | 0.59780                               |
| GEO SPECIALTY CHEMICALS     | 388.81                  |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| GREER LIME COMPANY          |                         |                            | 0.11000            |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| GULBRANDSEN TECHNOLOGIES    |                         |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| KEMIRA WATER SOLUTIONS      |                         |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| LHOIST NORTH AMERICA        |                         |                            | 0.11222            |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| PENNCO, INC.                |                         |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| POLYDYNE, INC.              |                         |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| PROMINENT SYSTEM, INC.      |                         |                            |                    |                                   | NON-RESPONSIVE                      | 0.55000                                 |                         |                               |                             |                      |                                       |                                       |
| SHANNON CHEMICAL            |                         |                            |                    |                                   |                                     |   |                         |                               | 2.39400                     |                      |                                       |                                       |
| SOLENS LLC                  |                         |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| SOUTHERN STATES CHEMICALS   |                         |                            |                    |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| STERLING WATER TECHNOLOGIES |                         |                            |                    |                                   |                                     |   |                         |                               | 2.45700                     |                      |                                       |                                       |
| THATCHER CHEMICAL OF FL     |                         |                            |                    |                                   |                                     | 0.66000                                 | 0.47500                 | 1.67500                       |                             |                      |                                       |                                       |
| UNIMIN CORP                 |                         |                            | 0.09626            |                                   |                                     |   |                         |                               |                             |                      |                                       |                                       |
| UNIVAR USA INC.             |                         | 0.25000                    |                    |                                   | 1.15000                             |   | 0.49000                 | 1.75000                       |                             | 0.12900              | 2.00000                               | 0.61850                               |
| LOWEST BID AMOUNT           | 219.00                  | 0.23000                    | 0.09590            | 0.04400                           | 0.59000                             | 0.55000                                 | 0.47500                 | 1.6000                        | 2.17000                     | 0.12900              | 1.45000                               | 0.59780                               |
| LOWEST BIDDER               | CHEMTRADE CHEMICALS     | COLONIAL CHEMICAL SOLUTION | CHEMRITE           | COLONIAL CHEMICAL SOLUTION        | BRENTAG MID-SOUTH                   | PROMINENT SYSTEMS, INC.                 | THATCHER CHEMICAL OF FL | BRENTAG MID-SOUTH             | COLONIAL CHEMICAL SOLUTIONS | UNIVAR               | BRENTAG MID-SOUTH                     | DPC ENTERPRISE                        |



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|                             | 13                      | 14                              | 15                       | 16               | 17                   | 18                                     | 19                              | 20                          | 21                    | 22                    | 23                    | 24                       |
|-----------------------------|-------------------------|---------------------------------|--------------------------|------------------|----------------------|--|---------------------------------|-----------------------------|-----------------------|-----------------------|-----------------------|--------------------------|
|                             | Caustic Soda 20%        | Polymer, Ashland Praestol K144L | Polymer Brennfloc CP2606 | Polymer – SE-365 | Polymer CedarFlo 504 | Filter Press Polymer (price per pound) | Sulfuric Acid 78% (bulk tanker) | Sulfuric Acid 78% (tote)    | Ferric Sulfate Liquid | Purate bulk           | Purate tote           | Aluminum Chlorohydrate   |
|                             | /lb                     | /lb                             | /lb                      | /lb              | /lb                  | /lb                                    | /gal                            | /lb                         | /lb of iron EE        | /lb                   | /lb                   | /lb                      |
| AFFINITY CHEMICAL, LLC      |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| ALLIED UNIVERSAL CORP       | 0.05600                 |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| AZZURE WATER SERVICES       |                         |                                 |                          |                  |                      |  |                                 |                             |                       | 0.61000               | 1.03000               |                          |
| BRENNTAG MID-SOUTH          | 0.07900                 |                                 | 1.29000                  |                  |                      |  |                                 | 0.18000                     |                       |                       |                       |                          |
| BURNETT LIME                |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| C & S CHEMICALS             |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| CARMEUSE                    |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| CARUS CORP.                 |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| CEDAR CHEM                  |                         |                                 |                          |                  | 1.24000              |  |                                 |                             |                       |                       |                       | 0.22500                  |
| CHEMRITE                    |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| CHEMTRADE CHEMICALS         |                         |                                 |                          |                  |                      |  |                                 |                             | 1.25470               |                       |                       | 0.23000                  |
| CHENEY LIME COMPANY         |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| COLONIAL CHEMICAL SOLUTION  | 0.07600                 |                                 |                          |                  |                      |  |                                 | 0.17000                     |                       |                       |                       |                          |
| DPC ENTERPRISE              |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| GEO SPECIALITY CHEMICALS    |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| GREER LIME COMPANY          |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| GULBRANDSEN TECHNOLOGIES    |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       | 0.18150                  |
| KEMIRA WATER SOLUTIONS      |                         |                                 |                          |                  |                      |  |                                 |                             | 0.73800               |                       |                       |                          |
| LHOIST NORTH AMERICA        |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| PENNCO, INC.                |                         |                                 |                          |                  |                      |  |                                 |                             | 0.82700               |                       |                       |                          |
| POLYDYNE, INC.              |                         | NON-RESPONSIVE                  | NON-RESPONSIVE           | 0.90000          |                      |  |                                 |                             |                       |                       |                       |                          |
| PROMINENT SYSTEM, INC.      |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| SHANNON CHEMICAL            |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| SOLENIS LLC                 |                         | 1.05000                         |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| SOUTHERN STATES CHEMICALS   |                         |                                 |                          |                  |                      |  | 1.48000                         |                             |                       |                       |                       |                          |
| STERLING WATER TECHNOLOGIES |                         | NON-RESPONSIVE                  | NON-RESPONSIVE           | NON-RESPONSIVE   |                      | 0.87700                                |                                 |                             |                       |                       |                       |                          |
| THATCHER CHEMICAL OF FL     |                         |                                 |                          |                  |                      |  |                                 |                             | 0.81540               |                       |                       |                          |
| UNIMIN CORP                 |                         |                                 |                          |                  |                      |  |                                 |                             |                       |                       |                       |                          |
| UNIVAR USA INC.             |                         |                                 |                          |                  |                      |  |                                 | 0.27500                     |                       |                       |                       |                          |
| LOWEST BID AMOUNT           | 0.05600                 | 1.05000                         | 1.29000                  | 0.90000          | 1.24000              | 0.87700                                | 1.48000                         | 0.17000                     | 0.73800               | 0.61000               | 1.03000               | 0.18150                  |
| LOWEST BIDDER               | ALLIED UNIVER SAL CORP. | SOLENIS LLC                     | BRENNTAG MID-SOUTH       | POLYDYNE, INC.   | CEDAR CHEM           | STERLING WATER TECHNOLOGIES            | SOUTHERN STATES CHEMICALS       | COLONIAL CHEMICAL SOLUTIONS | KEMIRA WATER SOLUTION | AZZURE WATER SERVICES | AZZURE WATER SERVICES | GULBRANDSEN TECHNOLOGIES |



**CLAYTON COUNTY WATER AUTHORITY**

**POLYMER / CHEMICAL PERFORMANCE EVALUATION REQUEST FORM**

POLYMER(S) / CHEMICAL(S)  
REQUESTED TO BE TESTED: \_\_\_\_\_

CCWA FACILITY: \_\_\_\_\_

COMPANY NAME: \_\_\_\_\_

COMPANY REPRESENTATIVE: \_\_\_\_\_

COMPANY BUSINESS ADDRESS: \_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

FAX NUMBER: \_\_\_\_\_

EMAIL ADDRESS: \_\_\_\_\_

COMPANY TAX ID NUMBER: \_\_\_\_\_

COMPANY WEBSITE: \_\_\_\_\_

DATE: \_\_\_\_\_