

CITY OF WOONSOCKET, RHODE ISLAND

INVITATION TO BID FOR:

**"GRANULAR ACTIVATED CARBON FILTER MEDIA  
REPLACEMENT" – BID#5761**

**For the Woonsocket Water Department**

Specifications are available at the Finance Department, **Office of Purchasing**, City of Woonsocket, 169 Main Street, Woonsocket, Rhode Island 02895 between the hours of 8:30 AM and 4:00 PM, Monday through Friday.

Sealed bids will be received by the City of Woonsocket, in the Finance Department, **Office of Purchasing**, City Hall, 169 Main Street, Woonsocket, Rhode Island until **2:00 P.M. on Thursday, November 3, 2016**, and then publicly opened and read aloud by the Finance Director in the **Office of Purchasing**, City Hall, 169 Main Street, Woonsocket, Rhode Island at **2:00 P.M.**

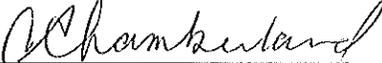
**ALL BIDS MUST BE SUBMITTED IN DUPLICATE COPY IN A SEALED ENVELOPE PLAINLY MARKED ON THE OUTSIDE OF THE ENVELOPE "GRANULAR ACTIVATED CARBON".**

**BID SURETY IN THE FORM OF A CERTIFIED CHECK OR BID BOND IN THE AMOUNT OF 5% OF SUCH BID IS REQUIRED.**

Individuals requesting interpreter services for the hearing impaired should call the Finance Director at 401-762-6400 seventy-two (72) hours in advance of the bid opening.

The City of Woonsocket reserves the right to reject any and all responses, or parts thereof, to waive any irregularity in the responses received and to accept the responses or parts thereof deemed to be most favorable to **THE BEST INTEREST OF THE CITY.**

Published: October 21, 2016

  
Christine Chamberland  
Finance Director

**INFORMATION TO BIDDERS  
CITY OF WOONSOCKET  
FINANCE DEPARTMENT  
(401) 767-9269**

**1. RECEIPT AND OPENING OF PROPOSALS:**

Sealed bids/proposals will be accepted and time stamped upon receipt in the Finance Department, City of Woonsocket, 169 Main Street, Woonsocket, Rhode Island, 02895; until the time, indicated on the attached Advertisement for Bids, for the commodities, equipment or services listed in the specifications. Bid/Proposals will be publicly read at the time specified in the advertisement.

**2. FORM OF BID:**

Proposals shall be submitted in duplicate. Supplemental information, drawings, warranties, literature and material to be provided with the bid shall be on the bidder's own form.

Where a specified brand or model number is asked for, it is to be viewed as a benchmark or standard, a substitute may be deemed equivalent at the discretion of the Finance Director.

The City of Woonsocket reserves the right to award a contract by item or in total.

**3. SUBMISSION OF BIDS:**

Envelopes containing bids must be sealed and addressed to the Finance Department, Office of Purchasing, City of Woonsocket, 169 Main Street, Woonsocket, Rhode Island 02895, and must be marked with the name and address of the bidder with the name of the bid in the lower left hand corner.

*If you are submitting a bid using a carrier such as FED EX, UPS, etc., the name of the bid and bid# must be marked on the envelope or label.*

The Finance Director will decide when the specified time has arrived to open bids and no bid thereafter will be considered.

- Any bidder may withdraw his bid by written request at any time prior to the advertised time for opening. Telephone bids, faxed bids, amendments or withdrawals will not be accepted.
- Unless otherwise specified, no bid may be withdrawn for a period of sixty (60) days from the time of bid opening.

- Negligence on the part of the bidder in preparing the bid confers no rights for the withdrawal of the bid after it has been opened.
- Proposals received prior to the time of opening will be securely kept, unopened. No responsibility will be attached to an officer or person for the premature opening of a proposal not properly addressed and identified.
- Any deviation from the Specifications **MUST BE NOTED IN WRITING AND ATTACHED AS PART OF THE BID PROPOSAL**. The bidder shall indicate how the bid will deviate from Specifications.

4. **RHODE ISLAND SALES TAX:**

The City is exempt from the payment of the Rhode Island Sales Tax under the 1956 General Laws of the State of Rhode Island, 44-18-30, Paragraph 1, as amended.

5. **FEDERAL EXCISE TAXES:**

The City is exempt from the payment of any excise tax or federal transportation taxes. The price bid must be exclusive of taxes and will be so constructed.

6. **QUALIFICATION OF BIDDERS:**

The City may make such investigations, as it deems necessary to determine the ability of the bidder to perform the work. The bidder shall furnish the City with all such information and data for the purpose as may be requested.

7. **ADDENDA AND INTERPRETATIONS:**

No interpretation on the meaning of the Plans, Specifications or other Contract Document will be made to any bidder orally. Every request for such interpretations should be in writing, addressed to the Finance Director, P.O. Box B, Woonsocket, Rhode Island 02895, and to be given consideration must be received at least seven (7) days prior to the date fixed for the opening of the bids. Fax transmissions will be accepted with written follow-up by bidder.

Any and all interpretations, and supplemental instructions which, if issued, will be mailed by regular mail to all perspective bidders (at the respective address furnished by the bidder for such purpose), not later than 48 hours prior to the date fixed for the opening of the bids (unless such addenda postpones the opening of bids). Failure of bidder to receive any such addendum or interpretations shall not relieve any bidder from obligation under his bid as submitted. All addenda so issued shall become part of the Contract Document.

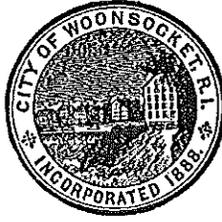
8. **DELIVERY:**

All Purchases related to this bid are to be delivered FOB various locations within the City of Woonsocket, delivery to be supplied with the Purchase Order. No extra charges for delivery, handling or other services will be honored. Only inside delivery and set-up, where required, will be accepted. TAILGATE DELIVERIES WILL BE REFUSED. The vendor must notify the City of Woonsocket 24 hours prior to delivery. All claims for damage in transit shall be the responsibility of the successful bidder. The City will not make payment on damaged goods, they must be replaced or adjustments made at the option of the City. The City of Woonsocket is only represented by the Finance Director in these matters and said director shall be the only entity to negotiate any settlements. Deliveries must be made during normal working hours.

9. Bid price is to include the cost of uncrating and setting in place where noted.
10. Bid price is to include installation where noted.
11. Bidder must comply with all State Labor Laws for Public Works projects.
12. The successful bidder must have all current taxes paid which are owed to the City of Woonsocket.

In accordance with Rhode Island General Law 37-13-7, contracts in *excess of \$1,000*. Shall require compensation based on *prevailing wages* for construction, alteration and/or repair, painting & decorating. The rates are available from the Rhode Island Department of Labor at (401) 462-8580, or access on the web: [www.access.gpo.gov/davisbacon/allstates.html](http://www.access.gpo.gov/davisbacon/allstates.html) for the State forms.

In accordance with Rhode Island General Law 37-13-14, bidders for public works/public building contracts in *excess of \$5,000 shall furnish a performance bond, upon conditional award of the contract*, at 100% of the contract price, conditioned upon faithful performance of the contract. A Labor and Materials Bond, at full contract value, is required upon conditional award of the contract.



City of Woonsocket,  
Rhode Island

Department of Public Works

Water Division

Granular Activated Carbon (GAC) Replacement  
Filter Media Replacement

Invitation to Bid

And

Specifications

October - 2016

## Section 1

### General Conditions and Instructions

#### Granular Activated Carbon (GAC) Replacement Filter Media Replacement

The following general conditions and instructions shall be adhered to during the GAC Filter Media Replacement at the Woonsocket Water Treatment Plant, Woonsocket, RI.

1. The words "WWD" or "Division" are used to designate the Woonsocket Water Division, whose principal place of business is at Woonsocket, RI or its duly authorized representatives for whom the work hereinafter described is to be performed.

The word "contractor" is used to designate the party or parties contracting or agreeing to perform the work or his or their heirs, executors, administrators, successors or assigns.

The word "inspector" or "engineer" refers to the person appointed by WWD to supervise the work and shall extend to and include any assistant whom he may designate to act in the premises.

The word "work" is used to designate the work, materials and things required to be done, furnished or performed by the contractor under these specifications.

Wherever the word "directed", "required", "performed" or words of like import are used, it shall be understood that the direction, requirement or permission of WWD is intended and similarly the words "approved", "acceptable", "satisfactory" or words of like import shall mean approved by or acceptable or satisfactory to WWD.

2. The contractor shall obtain the required insurance as indicated on the enclosed Insurance Certificates and shall submit duplicated copies of the executed forms prior to beginning work at the jobsite.
3. Any damage by the contractor to division facilities or to the surrounding grounds shall be repaired to original condition at the contractor's expense.
4. The contractor is cautioned against the handling of any agent that may be considered a pollutant to the public water supply. Any materials including but not limited to gasoline, oil, salts, cleaners, solvents, antifreeze, paints, etc., shall not be disposed of on or near

the site. Any wastes generated by the contractor shall be the sole responsibility of the contractor and must be properly disposed of in accordance with all applicable State and Federal Regulations. No wastes shall remain or be disposed on Woonsocket Water Department property.

5. The WWD reserves the right to reject any or all bids and to waive irregularities in the bids and in all bidding.
6. The contractor shall supply all equipment, materials, labor and supervision to facilitate the hydraulic unloading and loading of the GAC from the filter. This includes but is not limited to dump trucks, hopper, eductor, discharge hose, suction hose, suction wand, etc. The contractor is responsible for determining size, quantity and lengths of various hoses necessary at the jobsite to complete the work.
7. The Contractor shall supply all necessary equipment per OSHA requirements for confined space.
8. The contractor shall remove the spent GAC from the filter and then wait a period of seven workdays before delivery and placement of the virgin GAC to allow the WWD to perform patching and/or painting repairs to the filter boxes. The contractor is hereby specifically notified that the WWD assumes no responsibility for transportation or other delays caused on the part of the WWD in the completion of this repair work. If the contractor is delayed by reason of the Division's inability to accept the GAC, the Division will extend the time for completion of work for a period equivalent to the time lost. The contractor shall submit a report on the condition of the underdrains and their recommendations to correct any problems that may exist.

## Section II

### Granular Activated Carbon (GAC) Replacement Specifications

1. The contractor shall remove 7,100 cubic feet of spent granular activated carbon (bituminous based) and supply a total of 7,100 cubic feet of bulk virgin Granular Activated Carbon (GAC) Replacement at the Woonsocket Water Treatment Plant for one filter. The GAC filter media supplied shall be manufactured from bituminous based coal and must be 8 x 20 size such as Calgon Filtrasorb 820 manufactured by Calgon Carbon Corporation or an acceptable, pre-approved equal. Other GAC manufactured from peat, wood, coconut or other materials will not be accepted. The contractor will also certify that each end product is a domestic end product, and the final product has been mined, produced and/or manufactured inside the United States. Bidder must be a GAC manufacturer.
2. The GAC to be supplied hereunder shall meet the most current AWWA Standard B604 and ANSI/NSF Rule 61 in addition to the specific physical properties and other conditions listed herein. The GAC supplied must be virgin material and shall be free of any foreign materials such as clay, dirt, or other contaminants.

The GAC media supplied shall have the following physical and adsorptive properties:

	8x20
a. Effective size, mm.....	1.0 – 1.2
b. Uniformity coefficient (maximum).....	1.5
c. Abrasion number (minimum) .....	75
d. Particle size (U.S. sieve series)	
Larger than number 8 (maximum % by weight).....	5
Smaller than number 16 (maximum % by weight).....	-
Smaller than number 20 (maximum % by weight).....	4
e. Moisture content (percent maximum) (as packed).....	2
f. Bulk density, backwashed and drained, lbs./ft <sup>3</sup> * .....	27-29
g. Iodine number, mg/gm (minimum) .....	900
h. Trace Capacity Number (TCN) (minimum).....	9
i. Ash % (maximum).....	10
j. Water Soluble ash % (maximum).....	0.5

\*To be used to calculate volume requirements only.

3. Included with the proposal, the contractor shall provide an affidavit of compliance indicating the product proposed by the contractor complies with the AWWA standard B604 and ANSI/NSF rule 61 and with the owner's product specifications, as written, with no exceptions. The contractor shall also include documentation regarding the contractor's ability to deliver the GAC in a timely manner and evidence that the contractor maintains suitable bulk transport vehicles dedicated for the handling and transport of potable grade GAC. The contractor shall provide delivery trailer unloading procedures and applicable Material Safety Data Sheets with the proposal. (The contractor shall also include any support services, laboratory testing or other documentation offered as part of the proposal.)
4. Responding contractors must supply all of the information requested. Incomplete or missing information will be cause for automatic rejection. An officer or duly authorized person of the contractor shall sign proposals. Any and all exceptions taken to the specifications and proposal requirements must be so stated. Failure to do so will cause the proposal to be rejected.
5. For purposes of this specification, the volume requirement of GAC is based on that necessary to yield a 60" filter media depth in each filter after backwashing, leveling and draining. If excessive losses are experienced due to transport or placement, the contractor shall be responsible to compensate these losses to achieve a 60" depth.
6. The Division reserves the right to reject any quotation if the evidence submitted by, or the investigation of such contractor fails to satisfy the Division that such contractor is properly qualified to carry out the obligations of the contract documents and to complete the work contemplated therein.
7. A lot analysis report shall be submitted by the contractor to the Division for every bulk delivery sent to the plant as part of this work. The lot analysis report shall include the results of the typical physical and absorptive tests listed herein.

In the spring and fall a representative carbon sample will be submitted to the contractor for analysis at the contractor's expense. A certified testing laboratory will do the analysis. Testing methods shall be in accordance with Section 4 (testing methods) of the AWWA Standards for Granular Activated Carbon (AWWA B604), the Food Chemical Codex Protocol and appropriate ASTM standards. The certified testing laboratory shall analyze the material based upon the requirements of this specification. A certified test report must be submitted to the WWD.

8. Failure of the granular activated carbon to meet the requirements of this specification, or the contractor's submittals as demonstrated by the certified reports of the testing laboratory or other tests performed by the Division, will constitute cause for rejection.
9. The spent granular activated carbon removed from the filter shall be utilized in thermal reactivation by the contractor prior to reuse or ultimate disposal.
10. The successful contractor shall submit a three-year supply contract for approval after notification of award.

It is anticipated that there will be a minimum of one shipment per calendar year and a maximum of two shipments per calendar year.

Annual pricing will be adjusted by the percentage change in the Product Price Index from the date of contract signing.

Questions regarding technical specifications may be directed to Marc Viggiani, Acting Water Superintendent at (401) 767-2619 or [mvgiggiani@woonsocketri.org](mailto:mvgiggiani@woonsocketri.org).

### Section III

#### Specifications and Physical Properties of Spent GAC

Apparent Density .....	0.70 g/cc maximum
pH.....	4.0 to 9.0
Percent Volatile Sulfur.....	0.4% maximum
Flammability.....	Closed Cup Flash Point 150 deg. F or higher
Percent Ash (total).....	10% maximum
Contact or Motive Water.....	See Note 1
Debris and Extraneous Impurities.....	See Note 2

#### **Note 1:**

Contact or motive water refers to that water which is in contact with or between the carbon granules when the GAC is in a flooded packed bed or slurry conditions. This water may consist of the water which is applied to the GAC and/or the plant motive water used to transport or assist in transporting the GAC. The Woonsocket Water Department will ensure that the contact or motive water conform to the following standards:

#### A. Suspended Solids Concentrations.

Water applied to the GAC is expected to have an average suspended solids concentration no greater than 10 mg/l. It should be noted that an accumulation of suspended matter on the GAC could result in operational problems. These problems can consist of transfer and handling problems resulting from agglomeration of the GAC granules.

#### B. Oil and Grease Concentration

Although no substantial concentration of oil and grease is expected in the contact or motive water, it should be noted that their presence could cause coating of the GAC. If this occurs, operational problems may result. These could involve problems with transfer and handling of the GAC, and/or problems associated with the suitability of the GAC for absorption of dissolved organic substances.

C. Water Stability

The contact and motive water must be stable with respect to the precipitation of dissolved inorganic materials. Precipitation within the GAC bed may cause plugging and/or result in a destruction of the usable absorptive properties of the carbon. This may also create problems associated with reactivation of the GAC.

D. Dissolved Solids

In the event the dissolved solids content of contact or motive water exceeds 1,000 mg/l, it may be necessary to displace this water from the spent carbon prior to its removal, with low dissolved solids water in order to minimize problems with reactivation of the GAC.

E. pH

The pH of the contact or motive water shall not be less than pH = 4.0 or greater than pH = 9.0.

F. Temperature

The temperature of the contact or motive water shall not be greater than 150° F.

**Note 2.**

The spent carbon and the motive water shall be free of any debris or extraneous impurities which could cause transfer and handling problems, or could foul or damage any equipment used to store, transfer and transport the spent carbon. Demurrage of the bulk carbon deliver trailer, in excess of eight hours, resulting from transfer problems caused by debris or extraneous impurities on the carbon or in the motive water shall be to the account of the Woonsocket Water Department.

**CITY OF WOONSOCKET**

**P. O. Box B, WOONSOCKET, R.I. 02895**

**FINANCE DEPARTMENT**

**401-767-9269**

**BID PROPOSAL FORM**

**TOTAL COST PER SPECIFICATIONS FOR  
GRANULAR ACTIVATED CARBON FILTER  
MEDIA REPLACEMENT:**

**\$ \_\_\_\_\_**

PROPOSAL SUBMITTED BY:

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

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

CITY/STATE: \_\_\_\_\_ ZIP \_\_\_\_\_

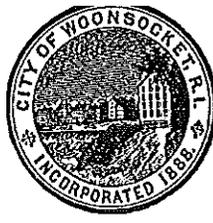
BY: (PERSON) \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

TELEPHONE NO. (\_\_\_\_) \_\_\_\_\_

FAX NO. (\_\_\_\_) \_\_\_\_\_

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



**CITY OF WOONSOCKET  
169 MAIN STREET  
WOONSOCKET, RI 02895  
401-767-9269  
401-597-6604 Fax**

**TO: All Bidders**

**FROM: Jessica L. Desrochers, Purchasing Dept.**

**DATE: October 21, 2016**

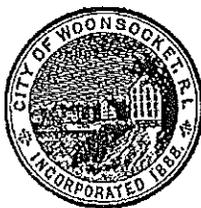
**SUBJECT: Granular Activated Carbon (GAC) Replacement BID# 5761**

**ADDENDUM #1**

**Please note changes below pertaining to the above bid.**

**For further information, please contact Jessica Desrochers at  
[jdesrochers@woonsocketri.org](mailto:jdesrochers@woonsocketri.org)**

**Thank you,  
Jessica/Purchasing**



DEPARTMENT OF PUBLIC WORKS  
WOONSOCKET, RHODE ISLAND

Woonsocket Water Division  
Granular Activated Carbon (GAC) Replacement

Addendum No. 1

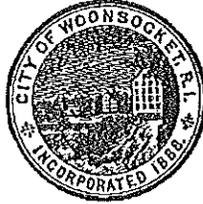
Bidders are hereby notified that the City will accept alternate bids for reactivated carbon. Bidders so doing will provide specifications for consideration.

Bidders shall submit proof of insurance meeting the following requirements:

**INSURANCE:**

Identification of insurance coverages maintained by the firm and all subcontractors with listings of limits and notable policy exclusions (note: Contractor shall maintain professional liability insurance covering errors and omissions in an amount equal to or exceeding \$5,000,000).

Worker's Compensation and Employer's Liability Insurance	As Required by law in the State of Rhode Island Employer's Liability Limits: \$100,000 Each Accident \$500,000 Disease – Policy Limit
General Liability, including	\$5,000,000 General Aggregate
Contractor's Protective, Products & Completed Operations and	\$2,000,000 Products and Completed Operations – Aggregate
Contractual Liability	\$1,000,000 Personal Injury \$1,000,000 Each Occurrence Limit \$50,000 Fire Damage Limit \$5,000 Medical Payments
Automobile Liability	\$1,000,000 Combined Single Limit for Bodily Injury and Property Damage
Owner's Protective Liability (City to be named additional insured)	\$1,000,000 Each Occurrence \$2,000,000 Aggregate, Bodily Injury and Property Damage



**DEPARTMENT OF PUBLIC WORKS  
WOONSOCKET, RHODE ISLAND**

**Woonsocket Water Division  
Granular Activated Carbon (GAC) Replacement  
Bid# 5607**

**ADDENDUM NO. 2**

Replace the following two sheets for submittal as the proposal pages. The bid page has been edited to clarify the option to provide reactivated carbon in years 2 and 3.

The City of Woonsocket, in accepting a bid, does not commit to 3 years of carbon replacement. The City is presently moving forward with the construction of a new water treatment plant. The treatment technology has not been selected. The time of completion for the new plant will dictate the need for carbon replacement in the existing plant.

- P R O P O S A L -

The undersigned bidder has carefully examined the site of the work described herein, has become familiar with local conditions and the character and extent of the work, has carefully examined the plans with latest revisions and supplements to date of contract, which are acknowledged to be a part of this Proposal, the Proposal form, the form of Contract Agreement, and the form of Contract Bond, and thoroughly understands their stipulations, requirements and provisions.

The undersigned bidder has determined the quality and quantity of equipment and materials required, has investigated the location and determined the sources of supply of materials required, has investigated labor conditions, and has arranged for the continuous prosecution of the work herein described.

The undersigned bidder hereby agrees to be bound by the Award of the Contract and, if awarded the contract on this Proposal, to execute within ten (10) days after Notice of Award the required Contract Agreement and the required Contract Bond, of which contract this Proposal, the plans for the work, and the specifications as above indicated, shall be a part.

The undersigned bidder further agrees to provide all necessary equipment, tools, labor, incidentals and other means of construction to do all the work and furnish all materials of the specified requirements which are necessary to complete the work in accordance with the Proposal, the plans and the specifications and agrees to accept therefore, as payment in full, the unit prices for the various items described in the specifications and set forth in the Proposal.

The bidder understands that the quantities of work shown herein are approximate only and are subject to increase or decrease and agrees that all quantities of work, whether increased or decreased are to be performed at the unit price stated in the following estimate of quantities and schedule of prices for the work described.

The bidder proposes to commence work on the project within ten (10) calendar days after award and to complete all work within 45 calendar days after the Notice to Proceed. The bidder agrees that the owner may assess a fee for liquidated damages of \$150.00 per day for any and all work not completed within this timeframe.

The undersigned bidder declares that this proposal is made without connection with any other person or persons making proposals for the same work, and is in all respect fair and without collusion or fraud.

The undersigned bidder submits herewith proposal guaranty in the form of a bid bond in favor of the City of Woonsocket in the amount of 5 percent of the total or gross sum of the bid and agrees and consents that the proposal guaranty shall be forfeited to the City as liquidated

damages if the required contract agreement and contract bonds are not executed within ten (10) days of the notice of award.

Carbon Replacement Proposal		Alternate Proposal for Reactivated Carbon:
Year 1	Virgin: \$	Virgin: \$
Year 2	Virgin: \$	Reactivated: \$
Year 3	Virgin: \$	Reactivated: \$

The undersigned bidder further agrees, if awarded the contract of this proposal, to begin work within ten (10) days after the date of execution of the contract unless otherwise specified under special provisions or permitted by the Engineer, and further agree to complete the work under the provisions of this contract within 45 days.

CONTRACTOR \_\_\_\_\_

BY \_\_\_\_\_ Signature \_\_\_\_\_

ADDRESS \_\_\_\_\_

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

Corporation Incorporated Under the Laws of the State of  
Composed of Officers, or Partners of Owner, as follows:(Partnership /Individual)

PRESIDENT:

VICE PRESIDENT:

SECRETARY:

TREASURER:

Bidder acknowledges receipt of the following addendum:

Addendum No. 1

Addendum No. 2

BY \_\_\_\_\_

BY \_\_\_\_\_