

### **NOTICE TO BIDDERS**

The Fox River Water Reclamation District is requesting bids from chemical suppliers for a glycerin based supplemental carbon source for use in wastewater denitrification. Sealed bids will be accepted until July 6, 2021 at 2:00PM at which time they will be opened and publicly read. Interested bidders should contact Jack Russell at (847) 429-4056 for complete bid specifications. The sealed bids will be accepted at the Fox River Water Reclamation District located at 1957 N. LaFox, South Elgin, 60177.

**FOX RIVER WATER RECLAMATION DISTRICT  
GLYCERIN BASED SUPPLEMENTAL CARBON SOURCE BID SPECIFICATIONS**

**OBJECTIVE**

The Fox River Water Reclamation District (FRWRD) is seeking to enter into a chemical supply contract with a supplier for the purchase of a glycerin based supplemental carbon source. To find the most cost-effective supplier, FRWRD is soliciting competitive bids.

**OVERVIEW**

The West Water Reclamation Facility (West WRF) is a 5-stage Bardenpho activated sludge wastewater treatment plant. In early 2020, FRWRD began adding a glycerin based supplemental carbon source to the second anoxic zone to enhance denitrification. The glycerin based supplemental carbon source was a proprietary 70% glycerin solution called MicroC 2000 manufactured by Environmental Operating Solutions, Inc. After a few tote deliveries of the MicroC 2000, FRWRD began receiving partial bulk deliveries of approximately 1600 gallons directly into the existing totes.

In January 2021, FRWRD began testing another 70% glycerin solution called BioCarb 72. The BioCarb 72 performed as well as the MicroC 2000 in our tests and FRWRD also has successfully received partial bulk deliveries of BioCarb 72.

In order to find the most cost-effective supplier of a glycerin based supplemental carbon source, FRWRD is seeking competitive bids.

**GLYCERIN BASED SUPPLEMENTAL CARBON SOURCE SPECIFICATIONS**

The glycerin based supplemental carbon source must meet the criteria in the table below using the method specified.

<b>Parameter</b>	<b>Limits</b>		<b>Method</b>
	<b>Minimum</b>	<b>Maximum</b>	
Appearance	Free of suspended, settled or floating matter		ASTM E2680-09
Glycerin (%)	70	74	ASTM D7637-10
Methanol (%)	-	0.5	EN 14110
Specific Gravity @ 20°C	1.21	1.25	ASTM D891-00
Viscosity cP @ 20°C	-	75	ASTM D2196
Viscosity cP @ 5°C	-	300	ASTM D2196
pH	4.0	11.0	ASTM E-70
COD (mg/L)	1,050,000	1,150,000	ASTM D1252 (dilution in water)
Ash (%)		9	AOCS Ca 11-55

The submitted glycerin based supplemental carbon source cannot have any substances or pollutants that would cause FRWRD to violate its NPDES permit, sludge permit, any state or

federal regulations, or any state of Illinois water quality standard. If any such contaminate is found in the product during the term of this contract, FRWRD reserves the right to immediately terminate the contract.

## DELIVERY

FRWRD currently stores the glycerin based supplemental carbon source in existing totes. Partial bulk deliveries of approximately 1600 gallons each will be made within seven (7) working days of the receipt of the order. During periods when tanker truck deliveries are in high demand FRWRD will work with the supplier to allow for a lead time of greater than seven (7) working days.

Deliveries shall be made between the hours of 8:00AM and 2:00PM, Monday through Friday to

Fox River Water Reclamation District  
West Water Reclamation Facility  
State Route 31 & Dana Drive  
Elgin, IL 60123

The delivery truck shall provide the necessary hoses, pumps, and adapters for the transfer of the chemical to the totes. FRWRD accepts the chemical via a 2 inch female camlock connector. The camlock connector is connected to a PVC pipe which has six tees and is capped at the end. When the delivery truck is pressurized the liquid will fill all six totes simultaneously. FRWRD personnel will arrange the PVC pipe for proper filling of the totes and will monitor the safe transfer of the chemical into the totes. The delivery truck driver shall control the flow of the chemical into the totes.

## AWARD OF THE CONTRACT

The contract will be awarded to the lowest responsive and responsible bidder whose bid complies with the criteria specified herein. FRWRD reserves the right to reject any or all bids and to waive any informality in the bids received whenever such rejection or waiver is in the best interest of FRWRD.

During the term of the contract FRWRD expects to use approximately 55 to 65 gallons of the glycerin based supplemental carbon solution per day. No warranty is given or implied as to the total quantity that will be purchased. Except in the event of a default by the seller, supply disruptions, or other extraordinary circumstances, FRWRD shall purchase the glycerin based supplemental carbon source exclusively from the successful bidder for the duration of the contract.

By submission of bid, the supplier guarantees that the product offered will meet the quality of standards as tested for the term of the contract. FRWRD reserves the right to conduct periodic checks on the quality and performance of the product furnished under this contract, or have it checked by outside sources. Failure of the supplier to provide a product which meets the standards of quality, delivery, or service as defined herein are grounds for termination of the

contract. In the event a shipment of product does not meet specifications, the supplier will remove, clean, and dispose of the product at their expense. The product must be removed within seven (7) calendar days of being notified in writing, via email.

The successful bidder shall include a product data sheet and the SDS for the glycerin based supplemental carbon source with their bid.

The price shall be fixed for the one year duration of the contract. The contract term will begin upon the execution of a signed contract between the successful bidder and FRWRD.

FRWRD shall be invoiced based solely on the volume of product delivered. Bid prices shall include the cost of delivery to the West WRF. There will be no added fuel charges for the length of the contract. The contract may be extended by an additional year at the bid price upon mutual agreement of FRWRD and the successful bidder.

FRWRD will issue the successful bidder a standing purchase order at the beginning of the contract that shall be used for all deliveries to the West WRF. The standing purchase order will be reissued yearly. FRWRD is a tax exempt organization and no sales taxes shall be charged.

Upon the execution of a signed contract the successful bidder shall provide FRWRD an insurance certificate showing complete liability coverage of not less than \$2,000,000 is carried by the seller. Pollution coverage shall also be provided on the insurance certificate and the Fox River Water Reclamation District shall be listed as additionally insured.

The successful bidder shall supply with their bid a list of at least three customer references who are presently using their product as supplemental carbon source at a wastewater treatment plant. Include the company name, name of contact, and telephone number for each reference.

No bids will be accepted after 2:00PM on July 6, 2021 for any reason. Please include your bid form in a separate envelope labeled "GLYCERIN BASED SUPPLEMENTAL CARBON SOURCE BID FORM ENCLOSED". Electronic submission of bids will not be acceptable.

If you have any questions or require additional information please contact Jack Russell at (847) 429-4056. We thank you for your interest and look forward to working with you.

#### EVALUATION PERIOD FOR NEW PRODUCTS

The proprietary products MicroC 2000 and BioCarb 72 have been used at the West WRF and have been found to effectively denitrify without causing other operational problems or plant upsets. Should either of these products turn out to be the low bidder, FRWRD will sign a contract with the supplier based on the bid specifications contained herein.

If the low bidder submits a new product that has not been tested at the West WRF, there will be a trial period of product testing prior to FRWRD signing the contract with the supplier. The trial period will consist of the following:

- FRWRD will purchase 1600 gallons of product at the specified bid price and take delivery into the existing totes.
- FRWRD will begin adding the product to the West WRF in the same way and at the same pumping rate that has been used in the past year.
- FRWRD will carefully monitor the operation of the West WRF for a period of approximately four weeks focusing on denitrification and overall nutrient removal. Should the West WRF experience upsets, operational problems, or require more product than past usage to achieve the desired results during this trial period, FRWRD reserves the right to end the trial at any time.

Should the new product fail to perform adequately during the evaluation period (as identified above), FRWRD reserves the right to disqualify the product from consideration in this chemical contract. The decision of whether the product does not perform adequately is at the sole discretion of FRWRD personnel. If the new product performs adequately during the trial period, FRWRD will sign a contract with the supplier at the submitted bid price.

In the event that a new product is disqualified based on performing inadequately during the evaluation period, FRWRD reserves the right to consider the second lowest bid if that is either MicroC 2000 or BioCarb 72. Should the second lowest bid be another new product, FRWRD will conduct another bid.

FOX RIVER WATER RECLAMATION DISTRICT  
GLYCERIN BASED SUPPLEMENTAL CARBON SOURCE  
BID FORM

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Company Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

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\_\_\_\_\_

Telephone No. \_\_\_\_\_

The following delivered price (\$/gallon) is submitted:

	<b>1 Year Fixed Price Contract (\$/gallon)</b>
<b>Partial Bulk Delivery (1600 gallons) of Glycerin Based Supplemental Carbon Source</b>	

**Trade Name of Glycerin Based Supplemental Carbon Source:** \_\_\_\_\_

Company Representative

Name \_\_\_\_\_

Title \_\_\_\_\_

Signature \_\_\_\_\_

TO BE ELIGIBLE FOR BIDDING, THIS DOCUMENT, FULLY COMPLETED, MUST BE RECEIVED BY 2:00PM, JULY 6, 2021, AT THE FOX RIVER WATER RECLAMATION DISTRICT. ELECTRONIC SUBMITTALS WILL NOT BE ACCEPTED.

Address: Fox River Water Reclamation District  
1957 N. LaFox  
South Elgin, IL 60177

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