



**ESVELT ENVIRONMENTAL ENGINEERING, LLC**

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Date: November 15, 2021

Project: City of Stevenson (City)  
Wastewater Treatment Plant Improvements – Major Equipment Procurement

Subject: Section 46 51 33 – Fine Bubble Diffusers Bids Evaluation

Prepared For: City of Stevenson, Leana Kinley, City Administrator  
Wallis Engineering, Jane Vail, Principal Engineer

Prepared By: Allison Esvelt, MSCE, PE, BCEE, Principal, Esvelt Environmental Engineering, LLC

The purpose of this technical memorandum is to summarize and evaluate the bids for the Fine Bubble Diffusers for the City of Stevenson Wastewater Treatment Plant Improvements Project. Bids were received from the following Bidders:

- Aquarius Technologies, LLC, Saukville, Wisconsin (Aquarius)
- Environmental Dynamics International, Inc., Columbia, MO (EDI)

Table 1 below includes the summary of the bids. Table 2 provides the summary of Bid completeness. All Bidders completed the Bid Form properly and submitted the Bids by the proper deadline.

**Table 1. Summary of Bids**

	Aquarius	EDI
Fine Bubble Diffusers for New Aeration Basin	\$45,400.00	\$62,635.00
Fine Bubble Diffusers for Oxidation Ditch	\$38,200.00	\$95,725.00
Base Bid Price	\$83,600.00	\$158,360.00
Sales Tax (7.7%)	\$6,437.20	\$12,193.72
Total Base Bid Price	\$90,037.20	\$170,553.72

**Table 2. Summary of Bid Completeness**

	Aquarius	EDI
Bid Form Complete and Addendums Acknowledged	✓	✓
Bid Security	(1)	✓
Evidence of Authority to do Business in Washington	✓	✓
Bidder Qualification Statement Form	✓	✓
<i>Specification Section 01 33 00, Submittals</i>		
Paragraph 2.03.B.2: Mechanical drawings including equipment layout drawings and equipment dimensions.	✓	(2)
Paragraph 2.03.C.1: Manufacturer’s catalog information.	✓	(2)
Paragraph 2.03.C.2: Manufacturer’s specifications for materials and manufacturing.	✓	✓
Paragraph 2.03.C.6: Design calculations and performance curves demonstrating compliance with the performance and design criteria of the specifications.	✓	✓
Paragraph 2.03.C.15: List of all variances from the Specifications.	✓(3)	✓

Notes:

- (1) Submitted electronically due to delays in receiving bond certificate.
- (2) Not submitted with Bid.
- (3) Variances submitted with Bid are attached to this memo.

Recommendation of Award: It is recommended that the contract be awarded to Aquarius with the lowest, responsive Bid. The City staff concurred with this recommendation during the equipment bids review meeting on 11/2/2021. The City agreed to pay sales tax directly to the Washington State Department of Revenue.

**4.3 Exceptions**

1.	<b>Specification:</b> 465133	<b>Section:</b> 2.03	<b>Subsection:</b> E. 1. – 3.
<b><i>Longevity of the proposal membrane diffusers shall have been demonstrated in a full-scale municipal installation operation continuously for a minimum of three years.</i></b>			
Exception / Clarification: Aquarius does not conduct or maintain membrane longevity test reports. Wastewater influent characteristics and IOM practices vary from installation to installation making this form of testing unreliable with respect to demonstrating efficacy. In lieu of supplying diffuser longevity reports, an installation list meeting the specified duration for longevity without replacement shall be provided.			
2.	<b>Specification:</b> 465133	<b>Section:</b> 3.01	<b>Subsection:</b> A
<b><i>Factory Test</i></b>			
Exception / Clarification: Oxygen Transfer Testing is very expensive and is redundant to the Owner if data already exists. Aquarius shall provide existing oxygen transfer performance data as specified in 1.04.A.4 in lieu of supplying new Oxygen Transfer Testing.			

**5. Terms and Conditions**

Aquarius Technologies, LLC Terms & Conditions of Sale are an integral part of this proposal unless otherwise stated or agreed upon in writing. In addition, the following Terms & Conditions are specifically noted for this project:

- Pricing is valid for 60 days from the date of this proposal in accordance with the contract documents.
- At time of order, escalation indicators shall be determined using the Producer Price Index (PPI) Guide for Price Adjustments based on mutually agreed upon commodity codes and percentage of equipment associated with each code. All proposals and orders are subject to escalation up to Release to Manufacture.
- At time of order, quoted freight shall be reviewed utilizing the specific lane information from the North American Freight Database provided by DAT Solutions. Any adjustments shall be mutually agreed upon based on number of trucks / shipments quoted. Additional shipments required at customers request will be an additional charge.
- Any delay at Purchaser's request for delay in drawing approval, release for fabrication, and/or shipment(s) schedules outside of the agreed upon Project Schedule shall be subject to a proportionate increase in the total material costs. If shipment is delayed more than 30 days after equipment has been released to manufacture, equipment shall be built, billed and stored.
- Acceptance of a purchase order is subject to credit approval and guarantee of payment.

- Taxes are not included. Purchases from Aquarius Technologies, LLC are for the purpose of resale and are therefore not subject to sales tax. Please provide a copy of your resale certificate.
- Terms of Payment: Net 30 days; 95% net 30 days, 5% retainage not to exceed 90 days from shipment of equipment.

## 6. Pricing

The price for the equipment described above, **FOB Jobsite**, is based on current freight rates. Freight includes 1 truckload(s) / shipment(s).

ITEM	PRICE (US \$)
1. New Fine Bubble Aeration System	INCLUDED
2. Existing Oxidation Ditch Aeration System (Alternate 1)	INCLUDED
3. Installation and Start Up Supervision	INCLUDED
4. Freight	INCLUDED
<b>TOTAL PRICE:</b>	See Bid Form

## 7. Closing and Contacts

Thank you for considering Aquarius for the subject project. Should you have any questions, please contact me or our local representative listed below.

Sincerely,

*Kyle Poplar*

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