



DEPARTMENT OF
UTILITIES

Department of Utilities
Water Treatment Facility
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MEMORANDUM

Date: March 15, 2024
To: Chairperson Vered Meltzer
CC: Chris Stempa, Utilities Director
John Pogrant, Water Operations Supervisor
From: Michael Suha, Technical Services Manager
Subject: **Utilities Committee Action: Award of Turbidity Instrument Purchase to Hach Company in the amount of \$36,469.08 with a 15% contingency of \$5,470.36 for a total not to exceed \$41,939.44**

BACKGROUND:

A turbidimeter, also known as a turbidity meter, is a device used to measure the turbidity of drinking water, particularly in the context of water quality assessment. Turbidity refers to the cloudiness or haziness of the water caused by the presence of suspended particles such as sediment, silt, and other fine particles. Turbidity can be an important parameter to monitor as it can affect the water's clarity and potentially indicate the presence of contaminants.

Wisconsin Department of Natural Resources, the regulatory agency sets turbidity limits for drinking water to safeguard public health and ensure the water meets specified quality standards. Online turbidimeters play a crucial role in helping water treatment staff comply with these regulations and maintain the integrity of the drinking water supply.

At present, the turbidity instruments are at the end of service life. The manufacturer has discontinued support for the equipment and obtaining spare parts and technical assistance is becoming difficult. This poses a significant risk to our ability to maintain consistent and reliable operations. Replacing the equipment will alleviate these challenges and provide access to support services and preventative maintenance parts.

QUOTE RESULTS:

Comparative information and instrument quotes were obtained from instrument companies. See table below:

Company	Real-time Monitoring and Trending	USEPA Compliant	Instrument Quote
In Situ	Yes	Pending	\$58,050.00
ATI	Yes	Yes	\$41,711.00
HACH	Yes	Yes	\$36,469.08

RECOMMENDATION:

After careful internal review and consideration, the HACH Company (Hach) Turbidimeter is recommended for purchase. The Hach turbidimeter is a reliable and cost-effective solution for accurate turbidity measurements. It offers ease of use and maintenance, making it suitable for a wide range of applications within the water treatment plant. The instruments competitive pricing, reliability, and user-friendly interface made it the top choice. Moreover, the existing turbidimeters are also Hach units making them familiar to staff.

In summary, it is recommended to award the purchase of the new turbidity instruments to Hach Company in the amount of \$36,469.08 with a 15% contingency of \$5,470.36 for a total not to exceed \$41,939.44.

If you have any questions regarding this project, please contact Michael Suha or Chris Stempa at 920-832-5945.