

**MEMORANDUM**

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**To:** Village Manager Cara Pavlicek  
**From:** Deputy Public Works Director Matt Morrison  
**Date:** 2024-10-22  
**Subject:** A Resolution Waiving Competitive Bidding and Authorizing the Purchase of Water Meters for the Automated Water Meter Project from Water Resources, Inc. of Elgin, Illinois

**Overview**

The Village of Northbrook has identified the water meters from Neptune Technology Group as the preferred solution for the Automated Water Meter Project.

**Fiscal Impact**

The Village of Northbrook will purchase the necessary water meters for the Automated Meter Project. The cost of these purchases is approximately \$3,627,429. Staff is seeking a contingency of \$100,000 for a total not to exceed spending authority of \$3,727,429 should additional meters or different meter sizes be required. Funds for this purchase will be taken from Water Fund Account 21-4180-702-00. Depending on the timing of the expenditure, a budget amendment may be required for the FY 2024/25 Budget.

**Recommendation**

Approval.

**Background**

The Village of Northbrook has conducted a thorough process in which the Mach 10 ultra sonic water meters manufactured by Neptune Technology Group were selected as the water meters that would be installed through the Automated Meter Project. The Neptune Mach 10 residential meters are manufactured in the United States and carry a 20 year warranty for accuracy, a 10 year full warranty for the battery and meter, with a prorated warranty for the life of the meter between 10 and 20 years. Larger meters (1.5 and 2 inches) carry a 10 year accuracy warranty, and 10 year full warranty for the battery and meter. Lastly those meters that are 3 inches or larger carry a warranty on accuracy of 10 years with full warranty of 5 years on the meter and battery and a prorated warranty of years 6 through 10. The Village has also utilized these meters for routine replacements over the past 3 years with roughly 1,083 currently installed. The Village has been satisfied with the performance of this hardware.

The local distributor of these meters is Water Resources, Inc. of Elgin, Illinois. The Village will purchase water meters in the estimated quantities outlined in the table below. The quantities of meters to be purchased was developed in conjunction with Veregy, Inc. through the audit conducted earlier this year. The unit prices of these meters is included with this memo and the

Resolution as Exhibit A.

<b>Table 1. Summary of Meters</b>	
<b>Meter Size</b>	<b>Estimated Quantity</b>
3/4" Short Lay Length	3,614
3/4" Long Lay Length	1,983
1" Meter	4,070
1.5" Meter	1,022
2" Flanged Meter	278
3" Meter	98
4" Meter	48
6" Meter	5
8" Meter	1
10" Meter	1
Total	11,120

If the Village Board is in concurrence with the recommendation and the attached Resolution is passed, a purchase order for the procurement of the necessary meters will be issued by the Village to Water Resources, Inc. Delivery of the meters is anticipated by April 2025 with installation of the new meters beginning in April 2025.

[A Resolution Waiving Competitive Bidding and Authorizing the Purchase of Water Meters for the Automated Water Meter Project from Water Resources, Inc. of Elgin, Illinois](#)  
[Exhibit A - Water Resources Unit Pricing for Meters.pdf](#)