

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

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| Scouting Number | 2026-116 |
| Item to be Scouted | Phosphate Sensor |
| Days to be scouted | 30 |
| Response Due By | 05/01/2026 |
| Description | This product will need to perform lab-grade measurements in all liquid water environments - high performance sensitive wet-chemical analysis; high resolution data up to every 5 minutes; easily swappable reagents; thousands of |

Section 2: Technical Information

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| Type of supplier being sought | Applications include rivers/estuarine monitoring, aquaculture, ocean science, autonomous vehicles, and wastewater monitoring. Manufacturer |
| Reason | Other |
| Details | NAICS code: 334513 Sole Source Foreign Manufacture Michigan |
| Describe the manufacturing processes (elaborate to provide as much detail as possible) | Electronic Assembly |
| Provide dimensions / size / tolerances / performance specifications for the item | Temperature range: 0-35 degrees C; Power consumption: 1.8 W; Range: 0-100 uM; Limit of Detection: 0-02 uM; Sample volume: 0.6 mL; Max depth: 6000 m; Comms: USB/serial; Total height: 56 cm; Total width: 16 cm. Must weigh less than 6.8 kg in air with reagents on board for mooring purposes; must work on an LED wavelength of 870 nm; must draw no more than 1.8 W at max capacity; must have either RS233/RS485 communications output; must have detection limit of less than or equal to 0.02 uM; must have range of 0-100 uM; must be able to internally record at least 1GB of memory; must have a sample rate of at least one sample per 6 minutes; reagents must be enclosed in plastic cartridges; must be able to record 1000 samples at a minimum; software and communications cables must be provided by vendor; must have depth rating of 6000 meters; must operate within a temperature range of 0-35 degrees C; waste must be stored in onboard canister; must have a deployment cable (open tail) 5 meters in length. Reagent cartridges must be refillable from vendor and purchased from vendor or swappable. |
| List required materials needed to make the product, including materials of product components | Required materials are not provided in specification documentation for sensor. |
| Are there applicable certification requirements? | No |
| Are there applicable regulations? | No |
| Are there any other standards, requirements, etc.? | No |
| Additional Technical Comments | |

Section 4: Business Information

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| Estimated potential business volume | One-time purchase of quantity 1 phosphate sensor with quantity 1 deployment cable. |
| Estimated target price / unit cost information (if unavailable explain) | \$32,325.00 Total |

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| When is it needed by? | Deliver by 30 days after date of award. |
| Describe packaging requirements | Packaging guidance not provided by program office. |
| Where will this item be shipped? | Ann Arbor, MI 48108 |

Additional Comments

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| Is there other information you would like to include? | <p>ClearWater Sensors only authorized US distributor is Aquatic Sensors.</p> <p>Other brands were already sent to the program office for technical evaluation. Brands include Supema, Xylem's Alyza IQ, and Yokogawa's WE440. None were found to be technically acceptable and meet all requirements.</p> |
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