



**STATE OF ALASKA**  
**Department of Environmental Conservation**  
**Division of Air Quality**

**Replacement T640X PM2.5 and PM10 Shelter for Floyd Dryden Air  
Monitoring Site  
RFQ No. 18-603-24  
Juneau, Alaska**

**Date of Issue: July 10, 2023**

**PURPOSE**

The State of Alaska, Department of Environmental Conservation, Division of Air Quality is soliciting quotes for a replacement of the T640X PM2.5 and PM10 Floyd Dryden air monitoring site shelter in Juneau, Alaska, under the Division's Air Monitoring & Quality Assurance (AMQA) Program.

The Procurement Officer for this document is:

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## Item Description:

The Department of Environmental Conservation (DEC) has received grant funding under the American Rescue Plan (ARP) for replacing the T640X PM2.5 and PM10 Floyd Dryden air monitoring site shelter in Juneau, Alaska. This shelter houses EPA-required air monitoring equipment and disseminates near-real-time data to the public and the local air quality agency.

The shelter must be designed to accommodate the dimensions of a Teledyne T640X particulate monitor – roughly 7 inches high, 17 inches wide, and 14 inches deep – and allow communications and power access. It must also have a heating, ventilation, and air conditioning (HVAC) unit capable of maintaining a low relative humidity and stable internal climate controls between 20 and 30 degrees Celsius, 68 and 86 degrees Fahrenheit (°F), during typical Southeastern Alaska summer and winter weather conditions (0°F to +80°F). The shelter will house a single monitor, inlet, pump, network switch/router, backup heat source, and other power and communication connections. The shelter will have a lockable door to access the interior and a ladder or stairs for roof access. It will be electric ready and must include electrical distribution and power cords. DEC will ensure the site is prepared for the delivery of the shelter, that power is present at the site, and perform all installation of air monitoring equipment.

## Specifications:

The climate-controlled ambient air monitoring cabinet must meet the following minimum requirements:

- Weatherproof exterior suitable for Southeast Alaska weather conditions (ice, rain, snow, ice, etc.);
- Aluminum and/or steel construction;
- Fully insulated to maintain a stable 20°C internal temperature;
- An HVAC unit that will maintain the internal temperature during ambient weather between 0°C to 30°C;
- Locking front and rear access doors;
- Equipment shelf and packing gland for Teledyne T640X with aerosol sample conditioner (ASC) connection inlet;
- Lifting handles or lift points for hoisting and moving;
- Sample line and communication cable entry fitting(s);
- Electrical distribution panel with 20-amp, 120-volt alternating current (AC) receptacles and power cords; and
- Shipping to Juneau, Alaska.

To DEC's satisfaction, the contractor shall provide the item and perform the one-year warranty/maintenance support included in the purchase. The Contractor shall be responsible for all communications regarding the progress of maintenance/services performed and shall discuss with the DEC any issues, recommendations, and decisions related to the contract. The Contractor will be the sole point of contact on all matters related to the purchase.

Questions regarding this document shall be addressed in writing to the Procurement Officer and sent to the following E-mail address: [DECDA\\$PROCUREMENT@alaska.gov](mailto:DECDA$PROCUREMENT@alaska.gov).