



MR# 24-093
Assigned by Purchasing Div.

MODIFICATION (WAIVER) REQUEST

Requesting Department & Division	Contact Name		Telephone #
Public Works & Engineering	Greg Smith		x4196
Department Head Signature	Date	Original RQ #	Estimated Cost
<i>Kate Kooser</i>	8/3/2023		\$ 72,420
Is this Procurement State or Federally funded? <input type="radio"/> YES <input checked="" type="radio"/> NO			

Reason for Modification Request:

*Please complete this form and attach all supporting documents.
Give complete, accurate, detailed explanation of your request. Please be specific.*

CBJ Public Works and Engineering requests a waiver bidding and contract directly with Mueller/Echologics for a ductile Iron material condition monitoring system for the CBJ Utility water distribution system. The Utility is in the process of replacing old ductile iron water pipe with non-corrosive plastic HDPE. The purpose of the monitoring the decay of the iron water pipe is to assist the Utility and Engineering Department with prioritizing the failing infrastructure into annual CIP projects. See attached.

- Sole Source:** The purchase of a commodity or service from the only known single source. *Attach verification.*
Code Provision: 53.50.090 (c)
- Class 2 Emergency:** A circumstance that poses a threat to the health, welfare or safety of the public.
Code Provision: 53.50.090 (L)
- Rider to Another Contract:** A vendor may extend another government agency's bid or contract pricing to CBJ. The proposed purchase must meet CBJ purchasing requirements and must have been competitively bid.
Code Provision: 53.50.090 (f) Agency: _____ Contract #: _____
- No Substitute:** A request for a specific brand name and model number of a particular item to be purchased. The item must be available from more than one supplier.
- Other:** Clear explanation is required. Code Provision: (if applicable) 53.50.090 (j)
Explanation: _____

Approved By: Renee Loree 08/14/2023
Purchasing Officer _____ Date _____
RKS 8-14-2023
City Manager _____ Date _____

FY	RQ	S Amount	PO #	Purchasing Approval

Purchasing Officer Comments: _____

Expiration Date: _____



MEMORANDUM

DATE: August 11, 2023

TO: Renee Loree, Purchasing Officer

**FROM: Greg Smith, Engineering Contracts Administrator
Abner Miller, CBJ Project Manager**

SUBJECT: ePulse Sole Source Request

On average the CBJ Water Utility responds to 35 waterline distribution breaks per year. In an effort to identify and prioritize repair and replacement of the remaining 150 miles of failing ductile iron water pipe, CBJ Engineering in conjunction with the Utility Division, researched technology that would allow the Utility to monitor the condition for decay. This analysis and data reporting allows the Utility to plan CIP projects that address by priority, the repair or replacement of the water system most likely to fail in the near term. The desired technology needed to satisfy the following:

CBJ water pipe and condition assessment requirements

1. Non-destructive
2. Non-invasive: Sanitation Concerns
3. Capable of mapping the entirety of our ductile iron system within 10-12 years. High Production
4. Data Collection: Sensory equipment should be portable and offer straight forward use to allow two CBJ staff to conduct in-field data collection
5. Be optimized for use on ductile iron

Competing companies that offer similar leak detection or material condition assessment involved invasive sensor installation that required CBJ to assume risk of failure at the installation point. Echologics/Mueller (ePulse) was chosen due to its ability to utilize point to point (valve to valve) non-invasive sensor leads applied to the water valves, record the data and move on to the next valve to valve section of planned water line assessment. CBJ conducted a proof of technology for the ePulse technology via an Engineering Consultant and found the equipment and data to be the most suitable technology for the goals of the utility due to the non-invasive procedures, portability and ease of use, cost effectiveness for long term data interpretation.