

**Watertown City Council**February 26<sup>th</sup>, 2019**Agenda Item: Utilities Capital Project – 4 inch portable pump****Request for Action: Adopt resolution #2019-30, Authorizing Solicitation of Quotes****Department: Doug Kammerer, Utilities Superintendent****Background:**

The Utilities Capital Fund identified the acquisition of a 4" trailered diesel pump as project #UC030 in 2019. This addition to the utilities equipment would be utilized year round for various utility maintenance efforts and severe weather and flood response at an estimated cost of \$45,000. Since 2001 the City has spent a little over \$61,000 on large capacity pump rental.

During flood response this pump would primarily be deployed to the low area surrounding Derson Tank, 200 Madison St SE, and located behind the private levy. During highwater events the storm water collection system that outfalls into the river is plugged to prevent the inundation of river waters in this area. Storm water that is collected and transported to this area is then pumped from storm water manholes on the property, over the levy and into the river. This storm water collection system collects run-off from the 300 block of Lewis Ave S and Marketplace Foods parking lot areas.

During high flow events within the sanitary sewer system, high capacity pumps are utilized to pump down sanitary sewer manholes or by-pass high flows from man-hole to man-hole. This is done to prevent the sanitary sewer system to back-up into homes and businesses.

Regular maintenance efforts at the waste water treatment facility also require the work of a high capacity pump in order to draw down tanks for cleaning and servicing.

The acquisition of a high capacity trailer pump would increase the efficiency in which regular maintenance activities occur as well as better position the organization to adequately respond to emergency situations within the community requiring pumping response.

Staff is requesting the approval of an RFQ for a 4" trailered pump package driven by a diesel-powered engine. The pump would have a max flow of 1,700 gallons per minute and a 24 run-time.

**Funding Source:**

Utilities Capital Fund&gt;Project #UC030

**Attachments:**

Map of storm water pumping area

Picture of sample trailered pump

RFQ

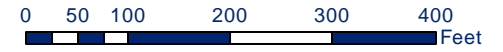
Resolution #2019-30



# CITY OF WATERTOWN

## Storm Water Pumping

Map Date: 2/19/2019





**2019 Portable Diesel Driven Pump Package  
Request for Quotes  
City of Watertown**

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The City of Watertown is seeking quotes for the procurement of a 4" portable pump with diesel engine meeting the specifications below. Please return quotes to Doug Kammerer, Public Utilities Superintendent at [dkammerer@ci.watertown.mn.us](mailto:dkammerer@ci.watertown.mn.us) or 309 Lewis Ave S, PO Box 279, Watertown, MN 55388 no later than March 22, 2019.

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Quote Considerations:

- A. The vendor's quote is required to be submitted under a condition of irrevocability for a period of 120 days after submission.
- B. The contractor will be required to furnish all labor, materials, and equipment.
- C. Pump Size:
  - A. 4-inch suction and 4-inch discharge
  - B. Max flow to be 1700 gpm 150 ft of TDH
  - C. Best efficiency point 800 GPM efficiency at BEP shall not be less than 63%
- D. Vacuum assist system:
  - 1. Pump shall have a heavy-duty vacuum system with a minimum of 50 cfm in priming
  - 2. Venturi priming systems will not be accepted
  - 3. Priming system shall contain a single chamber with positive sealing with stainless float ball and linkage.
  - 4. Mechanical Seal:
  - 5. Pump Mechanical seal shall be constructed with tungsten carbide and silicon carbide faces with Viton elastomers. Series 300 SS hardware and spring designed for indefinite dry run.
- E. Pump Construction:
  - 1. Pump shall have a standard cast iron construction with run dry mechanical seal
  - 2. Cast iron wear rings
  - 3. Oil lubricated bearing frame
  - 4. 10-inch diameter impeller constructed from CA6NM stainless steel
  - 5. A minimum of a 75-gallon fuel tank optimizing a 24-hour runtime at 1800 RPM.
  - 6. Package completely assembled and primed and painted
  - 7. Package shall contain a swing check valve constructed of ductile iron with a Buna N rubber disk
  - 8. Pump and Drive end bearings shall be single row ball bearings
  - 9. Shaft shall be 17-4 Stainless steel
- D. Warranty:
  - 1. Pump end of package shall carry a full 2-year limited warranty
- E. Engine:
  - 1. Diesel engine shall be rated for tier 4 compliance rated for 36 continuous hp at 1800 rpm.
- F. Trailer:
  - 1. Trailer shall have a complete DOT compliant light package with a heavy duty 12-volt battery system
  - 2. Fuel tank an intracule part of the trailer
  - 3. Trailer shall have stabilization jacks (one on the tongue and two on the rear)
  - 4. A pintle tongue hitch is required

G. Pump Control:

1. Package shall have an Auto/Stop controller
2. Controller shall be capable of all-weather situations and operate from -40F-185F
3. Operator interface shall contain a red shutdown warning, an amber warning and a green auto mode.

H. The quote shall be attached to this solicitation.

I. The City of Watertown reserves the right to reject any and/or all quotes and is also soliciting offers for this project from other companies.

\_\_\_\_\_  
(Name of Company/Contractor)

Dated: \_\_\_\_\_

By: \_\_\_\_\_  
(Authorized Agent)

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**CITY OF WATERTOWN  
RESOLUTION NO. 2019-30**

**RESOLUTION AUTHORIZING THE SOLICITATION OF QUOTES FOR A FOUR INCH  
TRAILED PUMP**

**WHEREAS**, the City of Watertown (the "City") has identified the acquisition of a trailered 4" pump in the 2019 Utility Capital Fund; and

**WHEREAS**, the City Council authorizes the solicitation of quotes for capital acquisitions over \$10,000; and

**WHEREAS**, staff is recommending the acquisition; and

**NOW, THEREFORE, BE IT RESOLVED**, that the City Council of the City of Watertown, Minnesota, hereby authorizes staff to solicit equipment quotes for City Council consideration.

Adopted by the City Council of the City of Watertown this 22nd day of February, 2019.

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Steve Washburn, Mayor

ATTEST: \_\_\_\_\_  
Lynn Tschudi, Clerk/Treasurer