



Legislation Text

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**TO:** Mayor Thomas J. Weisner

**FROM:** David E. Schumacher, P.E.; Superintendent of Water Production

**DATE:** August 10, 2016

**SUBJECT:**

A Resolution Authorizing Well Maintenance Services for Well No. 29 for the Water Production Division.

**PURPOSE:**

To obtain City Council authorization for Layne Christensen Company (Layne), 721 W. Illinois Avenue, Aurora, IL, to perform all necessary services as described in this memorandum to return Well 29 to full operational and functional status.

**BACKGROUND:**

Well No. 29, located at 1374 Deerpath Road is a deep well with the pump and motor setting at 882 feet below the surface and is normally capable of supplying approximately 2,000,000 gallons of water per day. The well's pumping equipment experienced a failure on June 21, 2016. Preliminary testing by Water Production Division (WPD) staff and Layne indicated an apparent mechanical failure of the Flowserve-Byron Jackson 2400-volt, 400 horsepower, submersible well pump motor. In order to determine the exact cause of the motor failure the well pump/motor assembly must be removed from the well for inspection and further testing. Under a not-to-exceed purchase order of \$25,000.00, Layne has completed the removal of the pumping equipment and suspects that a motor thrust bearing failed, rendering the equipment inoperable until repairs can be completed. The motor must be sent to the Flowserve service facility for a complete inspection. Based on currently available information, the motor itself will likely need to be replaced.

**DISCUSSION:**

The total estimated cost of all proposed and recently completed work by Layne to restore Well 29 to operational status is \$197,705.00. The estimated cost items that have been identified are as follows:

Removal of all pump components and field inspection of motor: \$25,000

Factory exchange motor: \$128,800

Pump reinstallation and testing: \$40,000

Miscellaneous items: \$3,905

A detailed breakdown of the estimated costs has been provided by Layne and is attached in a separate proposal letter.

The city entered into a Professional Services Agreement (PSA) with Layne in 2012 under Resolution No. R12-290, which provides a 5% discount on all labor and field services, and a 10% discount on

specialized services performed by Layne. Layne will perform all work on a time and material basis and will only be compensated for the actual work performed per the terms and conditions of the PSA. In addition, Layne is the sole regional factory authorized source for repair services of Flowserve-Byron Jackson pumps and motors utilized by the Water Production Division.

Funds are available in the 2016 City Budget in Account No. 510-4058-511-38-31.

**IMPACT STATEMENT:**

None.

**RECOMMENDATIONS:**

That a resolution authorizing well maintenance services for Well No. 29 by Layne Christensen per the existing PSA in an amount not to exceed \$205,000.00 be approved by the Mayor and City Council. It is further recommended that this matter be submitted to the Buildings, Grounds, and Infrastructure Committee for review and recommendation.

cc: Alderman Garza, Chairman  
Alderman Johnson  
Alderman Mesiacos  
Alderman Bohman, Alternate



CITY OF AURORA, ILLINOIS

RESOLUTION NO. \_\_\_\_\_  
DATE OF PASSAGE \_\_\_\_\_

A Resolution Authorizing Well Maintenance Services for Well No. 29 for the Water Production Division.

WHEREAS, the City of Aurora has a population of more than 25,000 persons and is, therefore, a home rule unit under subsection (a) of Section 6 of Article VII of the Illinois Constitution of 1970; and

WHEREAS, subject to said Section, a home rule unit may exercise any power and perform any function pertaining to its government and affairs for the protection of the public health, safety, morals, and welfare; and

WHEREAS, Well No. 29 requires equipment replacement and repairs in order to return the well to normal operational status; and

WHEREAS, Layne Christensen Company, Aurora, IL, is the sole local authorized representative for service and repairs to Flowserve-Byron Jackson well pump equipment utilized by the Water Production Division; and

WHEREAS, a current Professional Services Agreement is in effect between the City of Aurora and Layne Christensen Company for professional services to include but not limited to water well maintenance, well equipment repair, and field services as per City of Aurora Resolution No. R12-290; and

WHEREAS, budgetary authority is granted and funds are available for this work in the 2016 City Budget in Account No. 510-4058-511-38-31;

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Aurora, Illinois, as follows: that its Purchasing Director be and is hereby authorized to issue purchase orders for well maintenance services for Well No. 29 by Layne Christensen Company, in a total amount not to exceed \$205,000.00.