

## Memo



Public Works Department

City of Crest Hill

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<b>Date:</b>	7/10/2025
<b>Submitter:</b>	Julius Hansen, Interim Director of Public Works
<b>Department:</b>	Public Works
<b>Agenda Item:</b>	Well 4 Out of Service

A handwritten signature in dark ink, appearing to be "J.H.", is written over the name "Julius Hansen" in the "Submitter" field.

In June of 2025 Well 4 was not running properly and needed to be shut down. A check valve on the well assembly was found to be contributing to the problem. To install a new check valve for the well an insertion valve needed to be installed at the street. The old valve did not work. Superior Excavating performed the insertion valve work on July 7, 2025, for \$12,300. Another company then installed the check valve shortly afterward for a total cost of approximately \$15,000. This work needed to be completed for the overall operation of the well, but it did not solve the immediate problem with the well.

The same contractor that recently repaired Well #10 in April of this year was called to evaluate well #4. On July 10<sup>th</sup> they determined that the pump and motor needed to be replaced just like Well 10. Unlike well 10 the pump and motor at well #4 have reached its maximum effective service life (over 10 years old). The motor and pump need to be pulled from the well to be evaluated. Well 4 will need additional preparation work before installing the new pump and motor that was performed on Well #10 three years ago. This will include televising and cleaning the well casing before the pump and motor are installed.

I have received a very preliminary quote for the total cost of the work to be approximately \$101,124. The above-mentioned \$15,000 has already been spent to date on repairs to the well. The structural components of the well have not been "televised" in over 10 years. Hence, additional costs for more repairs than noted in the quote could add to the estimated expense. I expect cleaning and rehabilitation will be required and that is not in the quote. Therefore, I recommend the approval of \$150,000 to include some contingency funds for various issues that

might need to be addressed that we just don't know yet. However, this does not include any potentially **significant** unforeseen expenses.

This company installed the well assembly for well #10 as new in 2020, and all the preliminary work that went with it. They recently did that same work to the same well from the lightning strike. This is another emergency Well repair, and they are the recommended choice to do the work based on previous performance for the city.

**Recommended Council Action:** To approve an amount not to exceed \$150,000 in total for Layne Christensen Company to complete the work on Well 4.

**Attachments:** Estimate from Layne Christensen Company.