

Aqua Illinois, Inc.
Responses to: Illinois Commerce Commission Staff
ICC Docket No. 13-0246
WHA Second Set of Data Requests

WHA-AQUA 2.01 Please confirm whether the Hydraulic Water Analysis Report (Aqua Ex. 2.3) demonstrates that the existing 16-inch water main that serves Manteno Diversatech has the hydraulic capacity to meet the maximum day demand of Manteno, Grant Park, and University Park via the 24-inch Route 5A Pipeline without paralleling or replacing the 16-inch water main. Please provide the maximum day demand that can be met to serve University Park without improvements. If paralleling or replacing the 16-inch water main is necessary to meet the maximum day demand of University Park, please provide the estimated cost to construct the water main.

RESPONSE: The 2013 maximum day demands of Grant Park and University Park were 0.26 MG and 3.4 MG, respectively, for a total 2013 maximum day demand of 3.66 MG. The existing 16-inch water main that serves the 3 MG ground storage tank at Manteno Diversatech can supply 3.25 MGD at 3.6 feet per second (fps) on a peak day without improvements. However, in conjunction with a required IDOT relocation project and separate from the University Park project at issue in this proceeding, Aqua will construct in 2014 an additional connection between the Kankakee system and the Manteno system as part of the capital improvements in its Kankakee service area. The new connection will allow for the Manteno system to be fully supplied from Aqua's 6 MG storage and booster facility in Bradley; it will not need to be supplied from the Manteno Diversatech tank site. Accordingly, when the connection is completed, all of the existing 16-inch main capacity of 3.25 MG and all 3 MG of ground storage at Manteno Diversatech will be dedicated to University Park and Grant Park on any given day. Therefore, the existing 16-inch main (3.25 MG) has the capacity, in conjunction with the available 3 MG of storage, to meet the collective maximum day demand of Grant Park and University Park via the 24-inch Route 5A pipeline without improvements. Further, Aqua has the authority to impose seasonal restrictions if required to ensure that adequate flow is available. The Hydraulic Water Analysis Report does not directly reference this information. However, the hydraulic model, from which the Report was derived, assumed the information.

The estimated cost of the new connection between the Kankakee and Manteno systems is \$1.5M. However, as stated, that project is part of an IDOT project and is not at issue in this proceeding. As

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also stated, the existing 16-inch main has the capacity to meet the collective maximum day demand of Grant Park and University Park without improvements. However, the estimated cost to replace the existing 6-mile 16-inch main from the Target tank booster pumps to the Manteno Diversatech ground storage tank with 24-inch main would be \$4.5M. The estimated cost to parallel the existing 16-inch main with new 16-inch main would be \$3M. Both improvements would provide in excess of 6.5 MGD at 3.2 fps, regardless of storage.

Aqua also will address this in its surrebuttal testimony.

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WHA-AQUA 2.02 Please confirm whether the Hydraulic Water Analysis Report (Aqua Ex. 2.3) demonstrates that the existing 20-inch water main that serves Grant Park has the hydraulic capacity to meet the maximum day demand of Grant Park and University Park via the 24-inch Route 5A Pipeline without paralleling or replacing the 20-inch water main. Please provide the maximum day demand that can be met to serve University Park without improvements. If paralleling or replacing the 20-inch water main is necessary to meet the maximum day demand of University Park, please provide the estimated cost to construct the water main.

RESPONSE: As stated in response to WHA-AQUA 2.01, the 2013 maximum day demands of Grant Park and University Park were 0.26 MG and 3.4 MG, respectively, for a total 2013 maximum day demand of 3.66 MG. The existing 20-inch main that serves Grant Park can supply 6.5 MGD at 4.8 feet per second (fps) on a peak day via the 24-inch Route 5A pipeline without improvements. This higher velocity is acceptable given the shorter distance to the split point for the Grant Park and University Park mains. Accordingly, it is not necessary to parallel or replace the existing 20-inch main. The Hydraulic Water Analysis Report does not directly reference this information. However, the hydraulic model, from which the Report was derived, assumed the information.

Aqua also will address this in its surrebuttal testimony.

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WHA-AQUA 2.03 Please indicate the Booster Pump Station configuration at Manteno Diversatech that will be used to serve Manteno, Grant Park, and University Park via the 24-inch Route 5A Pipeline. Please confirm whether the Hydraulic Water Analysis Report (Aqua Ex. 2.3) demonstrates that the existing booster pumps have the pumping capacity to meet the maximum day demand of Manteno, Grant Park and University Park via the 24-inch Route 5A Pipeline without adding or replacing the existing booster pumps. Please provide the maximum day demand that can be met to serve University Park without improvements. If adding or replacing the existing booster pumps is necessary to meet the maximum day demand of University Park, please provide the estimated cost to construct the booster pumps.

RESPONSE: There are two booster stations on the Manteno Diversatech campus. The Grant Park booster has three 878 gpm pumps, and the Manteno booster station has two 2,430 gpm pumps. Using the Manteno 2,430 gpm booster station to pump to University Park and Grant Park, 3.5 MGD maximum can be pumped by that station. As stated in response to WHA-AQUA 2.01, the 2013 maximum day demands of Grant Park and University Park were 0.26 MG and 3.4 MG, respectively, for a total 2013 maximum day demand of 3.66 MG. Also, University Park has 3.3 MG in storage and Grant Park has 0.125 MG in storage. That storage would be used to offset the 0.16 MG incremental peak seen on the combined 2013 maximum days. Therefore, the existing Manteno booster station has the pumping capacity to meet the combined maximum day demand of Grant Park and University Park without additional pumping improvements. The Hydraulic Water Analysis Report referenced this option in Result No. 2 under Scenarios P1 and P2.

Although, as stated, the existing Manteno booster station has the pumping capacity to meet the combined maximum day demand of Grant Park and University Park without additional pumping improvements, Aqua has conducted an analysis on what is needed to meet a potential peak day of 4.8 MGD in University Park. To meet that demand, the pumps in the booster station would need to be upsized to 6AE12 pumps. The estimated cost of the pumps and installation would be \$100,000.

Aqua also will address this in its surrebuttal testimony.

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WHA-AQUA 2.04 Does the Company agree that the Title Sheet of Aqua's Rates, Rules, Regulations and Conditions of Service Tariffs for Water Service (ILL. C. C. No. 49) needs to be revised to include Will Township in Will County?.

RESPONSE: Yes.

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WHA-AQUA 2.05 Does the Company agree that Sheet No. 1 of Aqua's Rules, Regulations and Conditions of Service Tariffs for Water Service (ILL. C. C. No. 49, Section No. 1) needs to be revised to include Will Township in Will County?

RESPONSE: Yes.

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WHA-AQUA 2.06 Does the Company agree that Sheet No. 1 of Aqua's Schedule of Rates Tariffs for Water Service for the University Park Division (ILL. C. C. No. 49, Section No. 3) needs to be revised to include Will Township in Will County and Sumner Township in Kankakee County?.

RESPONSE: Yes.

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WHA-AQUA 2.07 If the Certificate of Public Convenience and Necessity is granted by the Commission, does the Company agree to file revised tariff sheets, within five (5) business days after the date of service of the Final Order, with an effective date of five (5) business days after the date of filing, for service rendered on and after their effective date, with individual tariff sheets to be corrected within that time period, if necessary.

RESPONSE: Yes.