



Waukesha Water Utility

SERVING WAUKESHA SINCE 1886

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May 26, 2011

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DRINKING WATER & GW

Mr. Steve Elmore
Wisconsin Department of Natural Resources
101 Webster Street
P.O. Box 7921
Madison, WI 53707-7921

Subject: May 19, 2011 telephone conversation regarding the City of Waukesha Application for Lake Michigan Water Supply

Dear Mr. Elmore:

Thank you for contacting our offices May 19, 2011 to discuss three items related to our Response to the Wisconsin Department of Natural Resources (WDNR) December 2, 2010 letter regarding City of Waukesha Application for Lake Michigan Supply. Based on our conversation, the following additional information is provided:

CEM PWS – 1, Water Use Audit

The water audit information previously submitted is based on 2004 water system performance. WDNR requested a less detailed water audit using data for the City of Waukesha Water Utility 2009 Annual Report to the Wisconsin Public Service Commission be provided.

A water audit provides an account of all the water enters and is withdrawn from a water system. Exhibit 1 presents a summary of Waukesha consumption and losses using reported 2009 data. The information is presented in accordance to the water audit components identified in the draft revisions to Wisconsin Administration Code chapter PSC 185 – standards for Water Utility Public Service.

CEM PWS – R3, Commercial and Industrial Demand Management Program

Information about commercial and industrial customer water use audits and leak surveys made available by Waukesha Water Utility for its customers was not submitted.

This information is posted to the City's website at

<http://www.ci.waukesha.wi.us/web/guest/wateraudit>

Assistance from City staff is also available upon request. The City will customize this information for its customers on the basis of input that will gathered through customer surveys and interviews in 2011 and 2012.

EXHIBIT 1
Waukesha Water Utility 2009 Water Audit

		Billed Authorized Consumption 2,286,310,000	Billed Metered Consumption 2,286,310,000	Revenue Water
			Billed Unmetered Consumption 0	
	Authorized Consumption 2,303,024,000	Unbilled Authorized Consumption 16,714,000	Unbilled Metered consumption 10,912,000	
			Unbilled Unmetered Consumption 5,802,000	
System Input Volume 2,479,895,000			Unauthorized Consumption 0	
	Water Losses 176,871,000	Apparent Losses 17,176,706	Metering Inaccuracies 17,176,706	Non-Revenue Water
			Data Handling Errors 0	
		Real Losses 159,694,294	Leakage on Mains 159,694,294	
			Leakage and Overflows at Towers 0	
			Leakage on Service Connections 0	

CEM PWS – R4, Water Reuse

The future water conservation activity of implementing an environmentally sound water reuse project is identified in Exhibit 4-3 of the Water Conservation Supplement and not described in the accompanying text. Additional planning information is requested.

Because the City cannot recycle its radium-contaminated filter backwash water and because it does not irrigate landscaping at its facilities, the City will need to partner with its customers to implement reuse projects. For example, the City collaborated with the school district and business development district to create, promote, and maintain the City's rain barrel program. Through interviews and surveys over the next two years, the City will identify potential reuse projects with its industrial and commercial customers. There may be opportunities to intercept process wastewater normally discharged to the storm sewer and use it for landscape irrigation. Similarly, there may be opportunities to expand rainwater capture systems among City customers that reduce the amount of drinking water used to water plants. Candidate pilot reuse programs will be evaluated for cost effectiveness prior to implementation.

Mr. Steve Elmore
Page 3
May 26, 2011

We appreciate your careful review of the Application and supporting documentation. Please contact us again if further information or clarification is needed to support your work.

Sincerely,
Waukesha Water Utility



Daniel S. Duchniak
General Manager

cc: Paul Ybarra, City of Waukesha Common Council President
Jeff Scrima, City of Waukesha Mayor
Cathy Stepp, WDNR Secretary
Eric Ebersberger, WDNR DG/5
Jill Jonas, WDNR DG/5