



**Water Solutions**  
**ENGINEERING™ LLC**

A WaterProfessionals COMPANY

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## **COUPON ANALYSIS REPORT**

For: **Water Solutions Engineering Customer**

Date: 2/4/2011

This corrosion coupon report is for the mild steel and copper coupons removed from both cooling tower coupon racks on 01/06/2011. The mild steel corrosion rates were excellent and well below our limit of 3.0 MPY. The copper corrosion rates were excellent as well and below the target limit of 0.3 MPY. Typically, the industry standard is to allow the coupons to be exposed for approximately 90 days and these were exposed for 86 days. These corrosion rates were very good especially given the fact that there were some problems with the ORP probe giving false readings during the initial exposure to these systems. We are confident that the mild steel and copper corrosion rates will be maintained or improve from this point forward.

These results below provided by an independent laboratory reveals that the chemical program which is in place on both tower systems is performing above expectations and the equipment serviced by these towers are very well protected by the Water Solutions Engineering™ chemical water treatment program.

Thank you for your business and we look forward to continuing to provide your company with excellent water treatment programs and service in the future.

Water Solutions Engineering



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<b>Specimen No.:</b> 07	<b>Date Installed:</b> 10/12/10
<b>Coupon Type:</b> ½ inch C1010 Mild Steel	<b>Date Removed:</b> 1/6/2011
<b>System ID:</b> K1 Tower	<b>Exposure:</b> 86 Days
<b>Sampling Point:</b> Coupon Rack	<b>Corrosion Rate:</b> 0.10 MPY



<b>Specimen No.:</b> 17	<b>Date Installed:</b> 10/12/2010
<b>Coupon Type:</b> ½ Inch CDA110 Copper	<b>Date Removed:</b> 1/6/2011
<b>System ID:</b> K1 Tower	<b>Exposure:</b> 86 Days
<b>Sampling Point:</b> Coupon Rack	<b>Corrosion Rate:</b> 0.18 MPY



<b>Specimen No.:</b> 06	<b>Date Installed:</b> 10/12/2010
<b>Coupon Type:</b> ½ inch C1010 Mild Steel	<b>Date Removed:</b> 1/6/2011
<b>System ID:</b> K3 Tower	<b>Exposure:</b> 86 Days
<b>Sampling Point:</b> Coupon Rack	<b>Corrosion Rate:</b> 0.13 MPY



<b>Specimen No.:</b> 14	<b>Date Installed:</b> 10/12/2010
<b>Coupon Type:</b> ½ Inch CDA110 Copper	<b>Date Removed:</b> 1/6/2011
<b>System ID:</b> K3 Tower	<b>Exposure:</b> 86 Days
<b>Sampling Point:</b> Coupon Rack	<b>Corrosion Rate:</b> 0.19 MPY

