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Customer Name: Legionella Detection Services Sample Date: July 7, 2008
 Customer Address: Date Received: July 8, 2008
 Date of Report: July 21, 2008
 Customer Phone: (724) 555-1212 Fax: (724) 555-1234
 PO Number: 456325 Attention: Samson Legionella
 Project Number: Cooling Towers - Legionella Street

Customer sample numbers below are uniquely identified by prefixing Laboratory # 07265-08

Water/Liquid Samples for Isolation of *Legionella* bacteria - Analytical Method USMS-B006 & USMS-B007

Sample Number	Media	Sample Description	Results of Microbial Analysis
Unit #1 Cooling Tower A	BCYE/DGVP BCYE/CCVC	Cooling Tower	100 CFU/mL
Analytical Sensitivity: 10	CFU/mL		<i>Legionella pneumophila</i> Serogroup 1 - 70 CFU/mL <i>Legionella pneumophila</i> Serogroup 6 - 30 CFU/mL
Unit # 2 Cooling Tower B	BCYE/DGVP BCYE/CCVC	Cooling Tower	190 CFU/mL
Analytical Sensitivity: 10	CFU/mL		<i>Legionella pneumophila</i> Serogroup 6
Ash Pond Water Tank @ Scrubber	BCYE/DGVP BCYE/CCVC	Faucet	90 CFU/mL
Analytical Sensitivity: 10	CFU/mL		<i>Legionella pneumophila</i> Serogroup 1

Example Report

Investigators have suggested different values for quantification of *Legionella* species isolated from potable water sources (e.g. faucets, shower heads, fountains). These values range from 10-100 CFU/ml of water for low levels of contamination. Remedial action or disinfection of the source should be performed with quantities greater than these values.

The natural habitats of *Legionella* species include waters worldwide and are associated almost exclusively with surface and potable waters or very moist environments. *Legionella* colonization can occur in faucets, showerheads, plumbing fixtures, hot water systems, whirlpool spas and cooling towers.

Environmental sources contain many *Legionella* spp. (e.g. water >60 serogroups). *Legionella pneumophila* (particularly *Legionella pneumophila* Serogroups 1, 4, & 6 respectively) is the most commonly isolated species from infected individuals. Other species most commonly associated with disease are *L. micdadei*, *L. bozemanii*, *L. dumoffii*, and *L. longbeachae*.

Legionella pneumophila is the most common species isolated from infected individuals. The most frequent manifestation of *Legionella* infection is pneumonia. *Legionella* is not contagious and transmissions to humans occur by inhalation of *Legionella* organisms from contaminated water aerosols.

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