COOLING TOWER DISCHARGE SURVEY

The Sub-Regional Operating Group (SROG) that is comprised of Glendale, Mesa, Phoenix, Scottsdale, and Tempe is responsible for implementing and operating industrial wastewater control programs in each of their communities. SROG is considering the use of best management practices (BMPs) as an alternative to local limits for controlling molybdenum discharges from industrial, commercial, and institutional facilities. These facilities include hospitals, resorts/hotels, office building, and industries. The goals of the Valley-wide BMPs include reducing the industrial and other users' loadings, eliminating/minimizing wastewater treatment plants' (WWTPs) violations, and maintaining (or reducing) current influent loadings while allowing for industrial and commercial growth.

The following survey includes questions regarding product usage, type of operation, etc., at facilities that operate cooling towers or chillers and that may discharge wastewater containing molybdenum to the collection system. The survey results will be used to provide SROG with more specific information on the types of discharges from these facilities. SROG and the City of Tempe will appreciate your cooperation in providing this important information. Please contact a member of the Environmental Division Pretreatment staff if you have any questions or need assistance with completing the survey.

Environmental Investigator	Telephone Number
Richard Dalton	480-350-2851
Ernie Frasquillo	480-350-2645
Jeremy Mikus	480-350-2852
Frank Valles	480-350-2691
Mike Golden	480-350-2674

Instructions: Please complete this survey form by November 29, 2004 and return it (via fax or mail) to:

Mail To:	Fax To:
City of Tempe Water Utilities Department Environmental Division P.O. Box 5002 Tempe, AZ 85280	480-350-2615

DATE: _____

1. FACILITY OVERVIEW

1.1 Facility name: _____

1.2 Facility address: _____

1.3 Facility contact for survey information: _____

1.4 Phone #: _____ Fax #: _____

1.5 Number of total employees: _____

2. PRODUCTS AND OPERATIONS INFORMATION

2.1 Indicate how many cooling towers/chillers, brand, and size/tonnage of each tower/chiller you have at your facility.

# Cooling Towers/Chiller	Brand	Size

2.2 For each of the towers/chillers listed in 2.1, indicate the number of cycles of concentration and blowdown water volume, in gallons per day or gallons per minute:

Cooling Towers/Chillers (size)	# of Cycles of Concentration	Blowdown Water Volume (gal/day or gal/min)	Measured Value or Estimated

2.3 List all the molybdenum-containing chemicals (i.e., corrosion inhibitor, anti-scaling, etc.) and estimate the quantity used in pounds per year (lb/yr) or gallons per day (gal/day), if possible.

Chemicals	**CAS Number**	**Quantity (lb/yr or gal/day)**	**Measured Value or Estimate**

3. OPERATIONS AND MAINTENANCE

3.1 Indicate the number of times per year that the cooling towers/chillers are drained or cleaned.

_____

_____

3.2 Do you have a service contract with a supplier or chemical-only contract for the chemicals used at your facility? Yes_____ No_____

If yes, may we call your supplier if we have any more questions about your cooling towers/chillers?

Supplier name and number: _____

3.3 Would you consider switching to alternative molybdenum-free chemicals under the advice of your chemical supplier?

Yes_____ No_____

If no, please provide reason.

_____

_____

_____

4. FUTURE CONSIDERATIONS

4.1 Has your facility upgraded the cooling tower/chiller system since January 2001?

Yes _____ No _____

If yes, describe what was upgraded:

_____

_____

_____

4.2 Does your company have any current or future company plans or goals to reduce the use of molybdenum-containing chemicals? Yes_____ No_____

If yes, please describe:

_____

_____

_____

_____

4.3 Is your company considering any water conservation program related to cooling towers/chillers? Yes_____ No_____

If yes, please describe:

_____

_____

_____

_____

_____

5. SROG BMPS DEVELOPMENT PROCESS

5.1 Would your company be interested in participating in future meetings with SROG to discuss the development of BMPs for molybdenum? Yes _____ No _____

Thank you for completing this survey.