EXECUTIVE SUMMARY

In 2007, Inland Empire Plating (Inland) requested technical assistance from the Department of Ecology's Technical Resources for Engineering Efficiency (TREE) team. Inland shares the building with Middco Tool & Equipment Inc. Middco does machining work, and Inland does zinc barrel plating and hard chrome plating. Inland was interested in reducing their hazardous waste generation.

TREE visited the facility several times to watch the process and better understand the work done by the business. During these visits TREE identified the following opportunities where Inland and Middco may be able to reduce resource use and waste generation:

- Water use
    - Perform frequent maintenance inspections and repairs to prevent equipment from using excess materials or generating excess waste.
    - Eliminate the use of single pass water through the air conditioner in the machine room.
    - Reduce the amount of water used for irrigating the yard and shrubs.
    - Quantify the amount of water discharged to the city sewer, and use this volume for billing instead of the amount pumped from the well.
    - Determine how much water the facility is allowed to pump from the well. The business may be able to sell the excess water right.
- Use filters that will last longer in the hard chrome bath.
- Work with local energy experts to reduce your energy use, including the lighting, evaporator, rectifiers, and heating.
- Storage Areas
    - Increase usable floor space by sorting through storage areas.
    - Sell unused equipment to recover some of the capital cost.
    - Recycle unusable materials.
- Hazardous Waste Management.
    - Reevaluate the designation of the filter press sludge to allow for non-hazardous waste disposal.
    - Handle the evaporator sludge as non-hazardous or special waste.
    - Reduce the volume of aerosol can waste by reducing the number of cans used and the volume of the cans disposed of.
    - Operate as a medium quantity generator to reduce regulatory overhead costs.
- Handle lights as universal waste to reduce mercury in the environment.

TABLE 1: ANNUAL SAVINGS FROM QUANTIFIED OPPORTUNITIES

Opportunity	Water Use	Wastewater		Solid Waste	Dangerous Waste	
	Gallons Reduced	*Gallons Reduced*	*Disposal Cost Savings*	*Cost Savings*	*Pounds Reduced*	*Cost Savings*
Machine Room Air Conditioner	360,000.	360,000.				
Irrigation		44,000.				
Sewer Charges			$1,390.			
Sorting				$50.		
Filter Press Sludge					2,000.	$4,000.
Evaporator Salt Waste					6,000.	$1,500.
Total	360,000.	404,000.	$1,390.	$50.	8,000.	$5,500.