

Lone Star Radiator Company, Inc.

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1. GENERAL INFORMATION

1995 Governor's Award

Location: San Antonio
Number of Employees: 12
Industry: Radiator Repair
Waste Reduced: Wastewater, Metals
Process: Water Reuse
Contact Person: David Bippert (210) 732-7558

2. DESCRIPTION OF PROJECT

Water from our operations contains heavy metals that make the water hazardous. This can no longer be discharged to the city's sanitary sewer and there are few waste haulers able to handle the waste (and it is expensive to have them haul it off).

3. INNOVATIVE APPLICATION OF TECHNOLOGY

Lone Star located a system produced by E/CAR Environmental that utilizes chemical treatment to remove oil products and heavy metals. The heavy metals and other solids drop out of the solution as a sludge and the water can be reused for general cleaning in the shop. The sludge is dried and shipped to a certified recycler (Concorde-Houston) who reclaims the metals. Likewise, the petroleum products are sent to a recycler.

4. ENVIRONMENTAL BENEFIT

This closed loop process eliminated the disposal of hazardous wastewater and reduced water needs by 36,000 gallons a month. Lone Star was the first radiator shop in San Antonio to install this closed loop system.

5. COST SAVINGS/BENEFITS

The entire system cost about \$40,000. To dispose of 36,000 gallons of hazardous waste a month would have cost well over \$100,000 each month.