

MGM Resorts City Center

A Case Study in Successful C&D Waste Diversion

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www.evergreenlv.com

Evergreen Recycling Profile

- Southern Nevada's leader in commercial, industrial and construction recycling services
- Founded in 1997
- Operated largest 50,000 sq ft C&D Material Recovery Facility (MRF) in Southern Nevada.
- Provide green jobs for more than 100 employees
- Provide regular recycling services to more than 500 customers from the commercial, industrial, construction business sectors

■ Awards:

2009 Small Business of the Year State of Nevada
Small Business Administration (SBA)

2009 Environmental Achievement Award
Environmental Protection Agency (EPA)

2009 Best Green Business Services
Las Vegas Business Press/Review-Journal



A New Day...

- Evergreen Recycling merged with Republic Services in July 2010
- Fortune 500 company
- 34,000 employees nationwide
- Operate 80 recycling facilities
- Republic Services recycled 3.3 million tons of material in 2009/200 pounds per second
- Environmental Impacts:
 - Removal of 1.7 million passenger cars from roadways
 - Conserved 1 billion gallons of gasoline



Case Study

City Center: Pre-Construction

- 18 million sq ft on 66 acres
- 6500 workers on the site at one time
- Obtained LEED Gold rating
 - Minimum 75% recycling rate
- Recycled materials including metals, plastics, wood, concrete, asphalt, drywall and green waste, C&D fines as ADC.
- 3.5 year construction time



City Center Pre-Construction Planning

- Three recycling options were considered
- On-site low-tech ground sort operation
- On-site source separation by materials type
- Comingle all waste and transport to off-site facility



Challenges

- No C&D facility existed
- No outlet for recycled drywall
- Small site/ transportation logistics
- Rapid growth of Evergreen personnel, facilities and equipment



Solutions

- Rapid planning process for finances, operations, and logistics
- Agreement to develop facility for exclusive hauling rights
- Convinced 1 of 3 local drywall manufacturers to reuse drywall material
- Implemented accelerated construction schedule 6-10 hours daily/weekly.
- Do not take NO for an answer.



Results

- Total of 130,000 tons/160 tons per day was recycled
- 5 tons per day low/500 tons per day high
- 22,000 roll-off bin pulls
- Total combined recycling rate of 92%
- Perfect safety record/no accidents or injuries
- No recorded service failures



Surprises

- Amount of plastic bottles and aluminum cans collected
- Large volumes of heavy aluminum and copper cable, wire and coaxial cable
- A 1959 Ford Fairlane



GOOD FOR THE PLANET. GOOD FOR YOUR BUSINESS.

