



Waste Management of Colorado, Inc.
Denver Arapahoe Disposal Site (DADS Landfill)
Sustainable Solid Waste Facilities

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From everyday collection to environmental protection.
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Denver Arapahoe Disposal Site (DADS)



Sustainable Facilities



- Safe
- Educational
- GREEN
- Convenient



Waste Management of Colorado, Inc. Denver Arapahoe Disposal Site (DADS LF)

- Owned by City and County of Denver
 - Life of site agreement
- Largest Landfill in Colorado
 - Averages over 8000+ tons per day
- Long term public-private operation



Sustainability at DADS LF

- Asphalt and Concrete Recycling
- Asphalt Shingle Recycling
- Composting/Organics Recycling
- Glass Recycling
- Brick/Block/Shotcrete Recycling
- Recycling and Diversion Center
- Litter Control
- Landfill Gas to Energy Plant and expansion potential
- Commitment to Community
- Other Notable Items



Environment



Asphalt and Concrete Recycling



Environment



Asphalt Shingle Recycling



Environment



Compost/Organics Recycling



Environment



Glass Recycling and Brick/Block/Shotcrete Recycling



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DADS LF Recycling and Diversion Center Services

- Single Stream Recycling
- Electronics Recycling
- Tire Recycling
- Appliance Recycling
- Pilot Project Development



Environment



DADS LF Recycling and Diversion Center Single Stream Recycling



Environment



DADS LF Recycling and Diversion Center Electronics Recycling and Tire Recycling



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DADS LF Recycling and Diversion Center Appliance Recycling



Environment



DADS LF Recycling and Diversion Center Future Staffing and Educational Area



Environment



DADS LF Recycling and Diversion Center Future Goals and Plans

- Growth of the Site Plan
- Addition of dedicated staff
- New services and programs as technology improves



Environment




Litter Control – Reuse Old Oil Drill Pipe




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Landfill Gas to Energy



- Reduced energy losses in transmission lines
- Reduced upstream congestion on transmission lines
- Reduced or deferred infrastructure (line and substation) upgrades
- Optimal use of existing grid assets
- Improved grid reliability
Voltage support and stability




Landfill Gas Well and Flare



DADS LF LFGTE Details

- Designed initially as a 4 - Caterpillar 3516 - 800 Kilowatts (KW) engines facility (expandable to 1,600 KW engines)
- Net output of 2.8 to 3.2 Megawatt's (MW) (per hour), enough to power about 2,800 homes
- Potential expansion using Caterpillar 3520's



DADS LF LFGTE Facility and Electrical



DADS LF LFGTE Compressor, Radiators, & Mufflers



Environnement



DADS LF LFGTE Engines



Environnement



DADS LF LFGTE Transformers and Lines



Environnement



Community Relations

- Established Relationships with Neighbors
- Customer Focused Events
- Partners with Local Groups
 - Boy Scouts
 - Eagle Scouts
 - Schools
 - Home Owners Association
 - Public Officials and Local Government



Environnement



DADS LF Leachate Collection Media

- Leachate Collection Layer
 - Consists partially of recycled materials
 - Glass – from various sources, main source is WM Recycling Facilities
 - Tires
 - Must meet minimum permeability standards, 1×10^{-2}



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DADS LF Phase 7 Leachate Collection



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Other Waste Management Initiatives

- Single Stream Recycling
- Solar Powered Compactors
- Think Green from Home
 - www.thinkgreenfromhome.com
- Lamptracker
 - www.WMLampTracker.com
- eCycling
 - www.wmescraptracker.com
- Environmental Education



Environment



ThinkGreen.Com

What is waste in reverse? It is waste given a renewed purpose as a resource. It is a recycled aluminum can that can power a laptop. It is a pear that turns into energy as it biodegrades. Putting the four R's - Reduce, Reuse, Recycle and Recover the resource into action is what Waste Management and this site are all about. Join us and let's Think Green®.

Interactive screens which describe how various aspects of the solid waste and recycling industry work.

<http://www.thinkgreen.com>



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Questions?

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