

Solid Waste Study Update



Board of County Commissioners

September 18, 2012



Presentation Outline





- Study Progress
- Operations Review
- Waste Flow Analysis
- Preliminary Financial Review
- Next Steps



Study Progress

- Scope of Services
 - Phase I Background Document Review
 - Phase II Market Analysis
 - Phase III Operations Review
 - Phase IV Flow Analysis
 - Phase V Financial Review
 - Phase VI Legal and Political Review
 - Phase VII Structural Review
- Completed work for Phases I-IV



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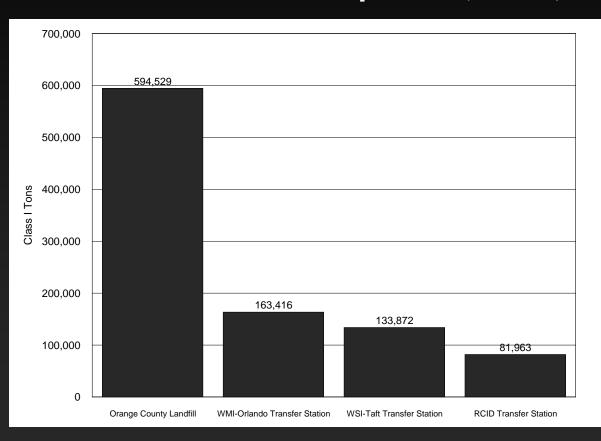
- Objectives
 - Review components of OCU waste system to identify how solid waste management services are provided
 - Analyze what services are provided by OCU, and what services are provided by other entities
 - Perform initial benchmark comparisons with other public agencies and private sector to identify potential efficiencies



- Quick refresher: OCU waste operations are comprehensive and include:
 - Class I and Class III landfills
 - 2 waste transfer stations and 1 recyclables transfer station
 - Recycled materials processing facility
 - Yard waste processing facility
 - Household hazardous waste facility
 - Waste tires processing facility
 - Additional waste-related programs and services



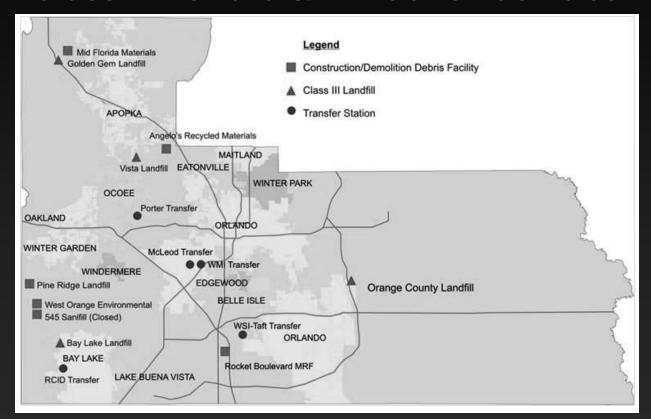
Class I Waste Disposal (2010)



- OCU is the largest
 Class I provider in the County
- 3 competing incounty transfer stations also receive Class I waste which is primarily disposed at non-OCU landfills

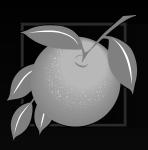


Class III and C & D Debris Facilities

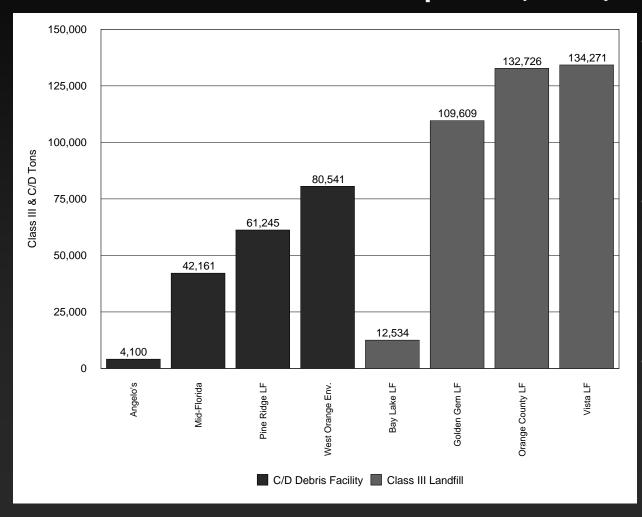


Class III waste includes yard trash, C & D debris, cardboard, processed tires, glass and asbestos

- Class III, including
 C & D debris, is a
 sizable waste
 stream
- OCU provides Class III and C & D debris waste transfer and disposal
- Competing incounty facilities include:
 - 3 Class III landfills
 - 4 C & D facilities
 - 2 private transfer stations
 - Facilities located in west half of County



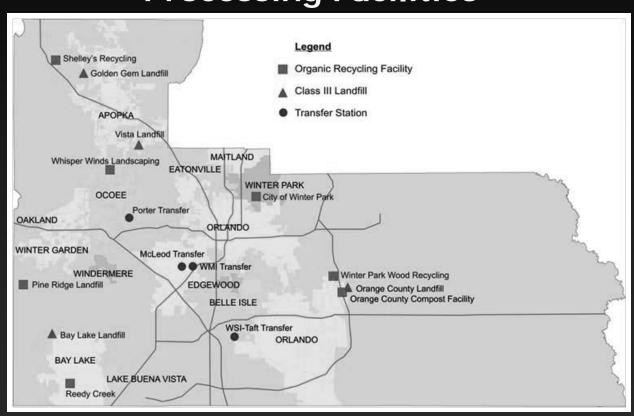
Class III /C & D Waste Disposal (2010)



- OCU managed 25% of Class III and C & D waste disposed from the County in 2010
- C & D facilities also recycle large amounts of materials (35% in 2010)
- Tonnage processed at C & D facilities decreased 64% from 2006 to 2010



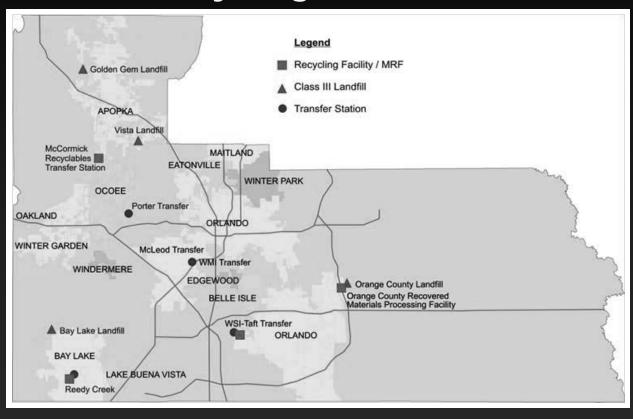
Yard Waste & Organic Processing Facilities



- OCU operates the largest yard waste facility in the County
 - Nearly 100,000 tons managed in 2010
- Other sites in the County managed about 50,000 tons in 2010



Recycling Facilities



- OCU is the principal recycling processing facility in the County (132,000 tons)
- Private transfer stations also separate recyclables (43,000 tons)
- 64 other sites reported handling recyclables from Orange County
 - Scrap and auto yards
 - Brokers/retailers



- Summary of OCU's role in managing Orange County's solid waste
 - OCU is the largest single-source provider of comprehensive services to manage all types of waste from Orange County
 - Other entities also manage components of the County's overall waste stream, but not as comprehensive as OCU
 - OCU's level of service must be considered when benchmarking with competing facilities, as there are trade-offs between cost and services provided



OCU comparison with other Florida Counties

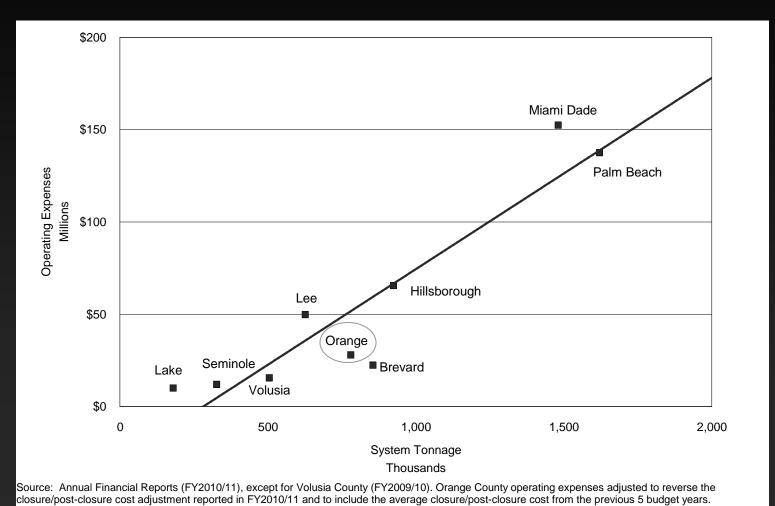
- As an initial benchmark, it is reasonable to compare OCU with other public waste systems
- The objective was to evaluate whether other counties provide similar services at lower cost, potentially pointing to operational efficiencies



- Researched eight public solid waste systems in Florida
 - Brevard, Hillsborough, Lake, Lee, Miami-Dade, Palm Beach, Seminole and Volusia
 - Systems handle from 327,000 tons to 1,620,000 tons (FY2010-11)
 - OCU handled 780,000 tons
- Metrics for comparison
 - Operating costs relative to system tonnage
 - Staffing relative to system tonnage

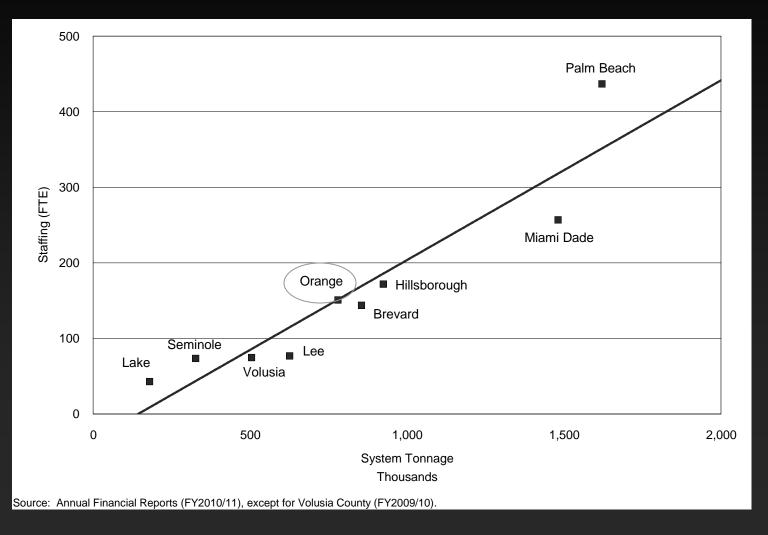


Operating Expenses vs. System Tonnage





Staffing vs. System Tonnage





Conclusions

- Each solid waste system is unique
- OCU is comparable to other large county solid waste systems in Florida relative to operating expenses and staffing levels and considering tonnage handled



Private Sector Benchmarks

- Financial data for private sector landfills is proprietary information
- Technical Memorandum #1 provides some benchmark information
 - Public contracts for disposal capacity at Okeechobee Landfill and Holopaw (J.E.D.) Landfill are in the low \$20s per ton (\$21.50 -\$22.30 per ton) for waste delivered to the landfills (excluding transfer and transport costs)
- Other benchmark data was compiled by reviewing operating permits for private sector landfills



- Operating permits filed with FDEP
 - Okeechobee Landfill = 17 personnel
 - Holopaw (J.E.D.) Landfill = 11 personnel
- Current staffing at OCU Landfill is 45 personnel
 - Staffing varies based on day of week and is lowest on weekends (7-11 personnel)



- Staffing is higher than private landfills due to following factors
 - Separate disposal areas for Class I and Class III waste
 - Yard waste operations personnel
 - Small vehicle drop-off personnel
 - Soil hauling
 - OCU operates 7 days per week versus 5 ½ days for most private landfills



Weekday staffing for OCU Landfill:

Work Area	Mon	Wed
Class I	7	11
Class III	7	9
Soil Hauling	7	10
Small Vehicle	2	3
Yard Waste	3	5
Yard Dog	4	7
Total	30	45

 Separate Class III disposal area, small vehicle drop-off, and yard waste processing are services not provided at competing landfills



Potential Options to Increase Efficiencies

- Combine Class III waste into Class I Landfill:
 - Consistent with operating practice at private landfills
 - Class III tipping fee would be maintained to preserve waste flow
 - Class III waste tonnages are lower due to economy
 - Potential cost savings from operating one disposal area instead of two
- Combine yard waste into Class I Landfill:
 - Yard waste now allowed in Class I landfills with landfill gas management systems to enhance energy production
 - Yard waste tipping fee would be maintained to preserve waste flow
 - Potential cost savings by reducing separate handling of yard waste
 - However, compost would not be produced



Potential Options to Increase Efficiencies

- Soil hauling efficiencies:
 - Current borrow pit location on landfill property is located further away from Class I and Class III disposal areas
 - New borrow area being permitted that is adjacent to Class I disposal area
- Closure and long-term care costs:
 - During the construction boom, estimates of closure costs were impacted by escalating construction costs
 - Following the boom, construction costs have moderated
 - Investigating the impact on future funding requirements
- These are preliminary options that are being analyzed in more detail

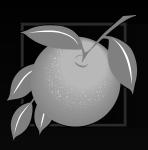


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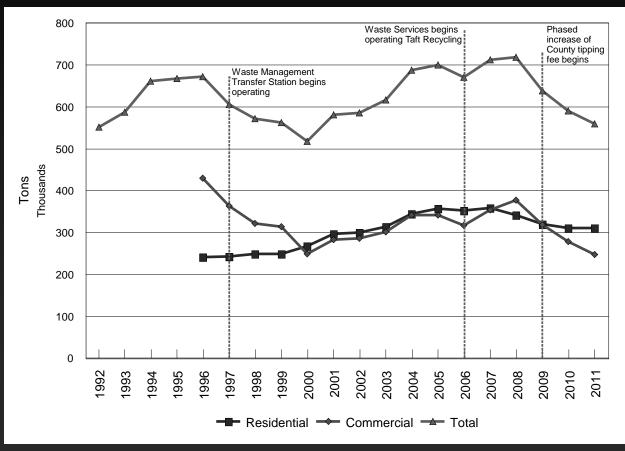
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- Objectives
 - Further investigate flows of waste generated within Orange County and managed by OCU
 - Builds upon preliminary research performed for market assessment
 - Analyze trends in customer deliveries to OCU waste system



OCU System Class I Tonnages



Residential

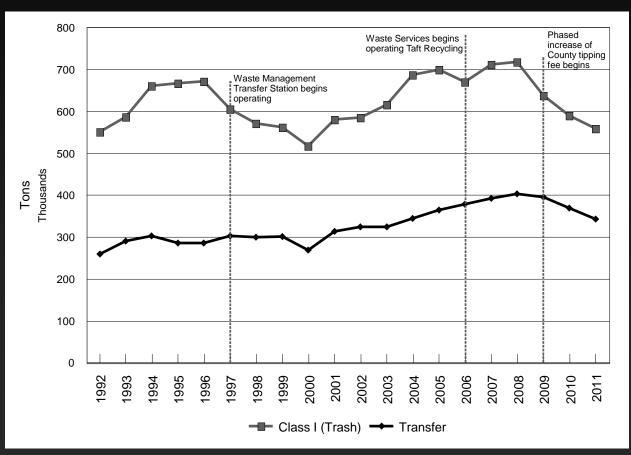
- Steady increase from 1996-2008
- Decreased since 2008, likely economy driven

Commercial

- Decreased 1996 2000 following opening of WM transfer station
- Steady growth from 2000-2008 along with economy
- Decrease since 2008, bigger decline than residential



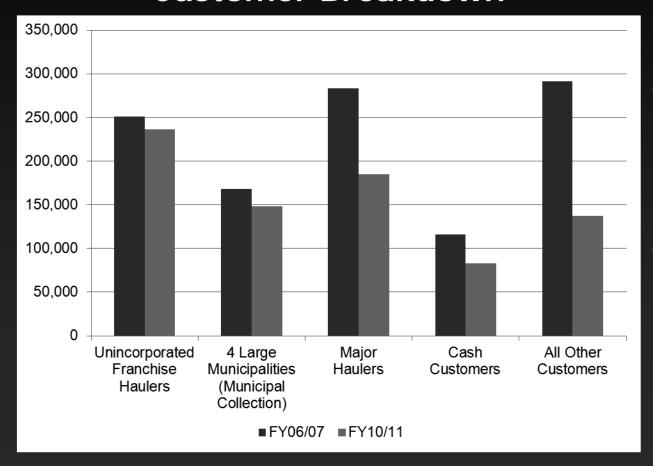
OCU System Transfer vs. Total Class I



- Transfer tonnage shows steady increase up to 2008
- Over the same period, total Class I waste had greater variability
- Transfer stations provide value and address needs of the densely populated western half of the County



Orange County System Customer Breakdown



- Tonnage from each customer sector has decreased over the past 5 years
- Decrease lower for unincorporated residential franchise and 4 large cities
- Largest decreases
 were for large
 private haulers and
 "other" customers
 which includes
 many roll-off
 container
 businesses



Conclusions

- Historically, OCU has lost tonnage to competing facilities, but regained some tonnage during periods of economic growth
- The economic downturn has reduced waste deliveries from all customer classes
- Decline in tonnage has been smaller for unincorporated residential franchise waste and waste delivered by 4 large municipalities
- Waste delivery agreements help to stabilize tonnage
- Continue to evaluate operational efficiencies as incentive to secure waste delivery agreements



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Preliminary Financial Review

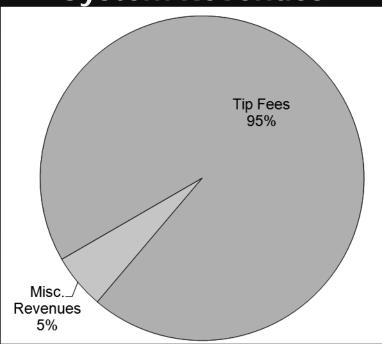
- Objectives
 - Share preliminary financial information
 - Baseline financial data being used to evaluate potential operating efficiencies



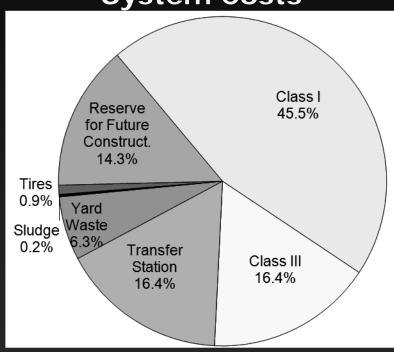
Preliminary Financial Review

System Revenue/Cost Components (FY2010/11)

System Revenues



System Costs

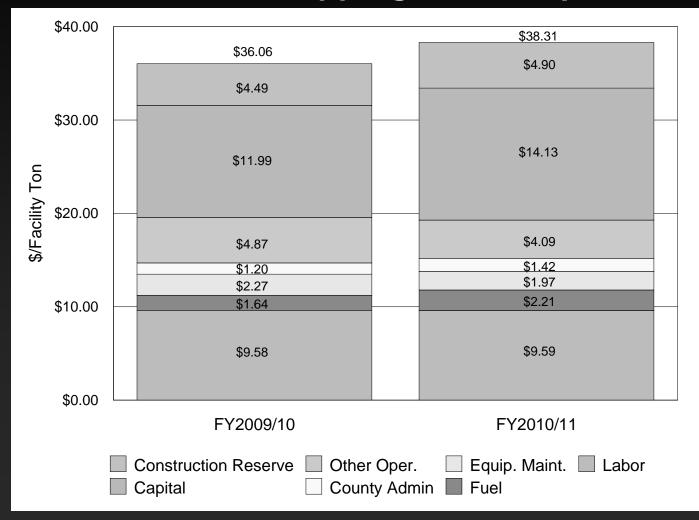


- Tipping fees are major source of system revenues
- Revenues must cover annual operating costs and future capital improvements



Preliminary Financial Review

Class I Waste Tipping Fee Components



- Tipping fee is average of residential and commercial fees
- Cost/ton varies based on tonnage
 - FY2009/10 = 608,344 tons
 - FY2010/11 =
 564,762 tons
- Capital includes equipment, smaller projects and closure/longterm care
 - Closure costs are an average over prior 7 years
 - Capital based on average requirements over next several years
- Construction reserve is for major projects (e.g. next cell)



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Next Steps

- Complete evaluation of potential operations efficiencies
- Complete financial review
- Perform legal and structural review
- Develop recommendations
- Schedule next BCC Update
- Schedule next Mayors Group meeting



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