

State of the County's Recycling & Waste Management System

Department of Waste Management & Recycling
January 10, 2017

Presenter

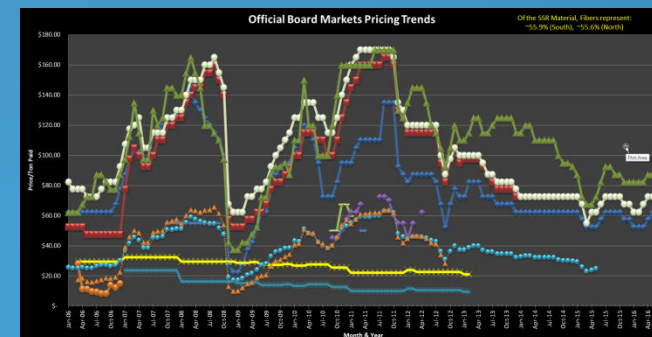
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Topics:

- Facility Operations
 - Kiefer Landfill
 - North Area Recovery Station (NARS)
- Collection Operations
 - South Collections
 - North Collections
- Market Driven Contracts



Kiefer Landfill

- Garbage
- Green Waste
- Wood & Brush
- Inerts
- Dirt
- Metals
- Cardboard
- Mattresses
- eWaste
- Tires
- Paint

	FY 10/11 (tons)	FY 11/12 (tons)	FY 12/13 (tons)	FY 13/14 (tons)	FY 14/15 (tons)	FY 15/16 (tons)
Received	627,950	649,300	668,250	646,600	670,600	751,050
Landfilled	513,650	558,750	607,100	597,000	623,800	657,600
Recycled/Reused	114,300	90,550	61,150	49,600	46,800	93,450

Recycled/Reused Materials	FY 10/11 (tons)	FY 11/12 (tons)	FY 12/13 (tons)	FY 13/14 (tons)	FY 14/15 (tons)	FY 15/16 (tons)
Green Waste (Reused)	71,025	47,175	31,800	21,575	21,850	23,475
Wood & Brush (Recycled)	7,250	5,275	5,600	5,225	5,775	8,425
Inerts (Reused)	18,750	20,400	12,600	12,025	12,175	31,425
Dirt (Reused)	7,475	16,200	9,950	9,800	5,850	28,375
Metals (Recycled)	1,075	800	650	575	625	1,150
Cardboard (Recycled)	5	30	45	50	60	70
Mattresses (Recycled)	N/A	N/A	N/A	N/A	N/A	90
eWaste (Recycled)	295	285	255	235	235	255
Tires (Recycled)	325	355	250	200	175	200

NARS

- Garbage
- Green Waste
- Wood & Brush
- Inerts
- Dirt
- Metals
- Cardboard
- Mattresses
- eWaste
- Tires
- Paint

	FY 10/11 (tons)	FY 11/12 (tons)	FY 12/13 (tons)	FY 13/14 (tons)	FY 14/15 (tons)	FY 15/16 (tons)
Received	295,400	313,550	322,400	317,050	325,800	344,900
Landfilled	192,550	202,400	212,800	225,450	235,250	251,550
Recycled/Reused	79,700	98,500	93,850	87,750	84,300	88,700

Recycled/Reused Materials	FY 10/11 (tons)	FY 11/12 (tons)	FY 12/13 (tons)	FY 13/14 (tons)	FY 14/15 (tons)	FY 15/16 (tons)
Green Waste (Recycled)	42,900	52,800	56,400	51,800	46,350	42,250
Wood & Brush (Recycled)	16,000	16,950	21,700	21,650	22,350	27,000
Inerts (Reused)	10,950	13,850	7,200	6,050	7,250	7,450
Dirt (Reused)	4,650	11,250	5,150	4,950	4,700	6,650
Metals (Recycled)	4,100	2,650	2,325	2,375	2,675	4,025
Cardboard (Recycled)	N/A	65	145	40	45	35
Mattresses (Recycled)	N/A	N/A	N/A	N/A	N/A	260
eWaste (Recycled)	775	660	640	615	650	680
Tires (Recycled)	320	275	290	275	280	350

Mattress Program

- Assembly Bill 254 (Hancock & Correa)
- Signed by Governor on September 27, 2013
- Board approved contract with MRC on December 15, 2015
- ByeBye Mattress program commenced on December 30, 2015






Month	Kiefer (units)	NARS (units)	Total (units)
December 2015 (30 th & 31 st only)	57	48	105
January 2016	379	553	932
February 2016	409	1,616	2,025
March 2016	555	2,080	2,635
April 2016	614	1,248	1,862
May 2016	626	2,253	2,879
June 2016	704	1,486	2,190
July 2016	792	1,207	1,999
August 2016	755	1,446	2,201
September 2016	579	1,758	2,337
October 2016	547	1,361	1,908
Total Received	5,960	15,056	21,016
<i>Recycled</i>	<i>5,486</i>	<i>13,490</i>	<i>19,060</i>

eWaste Program

- Senate Bill 20 & 50 (Sher - 2003 & 2004)
- Covered Electronic Waste (CEW), Universal Waste Electronic Devices (UWED) - State
- Recyclable Electronic Equipment Materials (REEM) - Sacramento County
- Contracted with processor in September 2009 - Fixed Price structure
- Restructured contract with processor in August 2015 - Market Based structure



Year	 CEW (tons)	 UWED (tons)	 REEM (tons)	Total eWaste (tons)	Revenue
FY 09/10	836	421	N/A	1,257	\$ 545,450
FY 10/11	572	295	N/A	868	\$ 407,650
FY 11/12	568	226	110	904	\$ 331,500
FY 12/13	516	214	126	856	\$ 303,300
FY 13/14	443	224	120	787	\$ 268,800
FY 14/15	528	178	147	853	\$ 302,500
FY 15/16	606	235	127	968	\$ 175,150
Totals	4,231	1,917	630	6,492	\$ 2,334,350



Approximately 12,985,000 lbs (6,492 tons)
sent to processor since September 2009

Tire Program



- AB 1843 (1989) established the Tire Recycling Act
- Current State tire recycling fee at point of sale is \$1.75/tire to fund the statewide program
- First 4 car and light truck tires free at County facilities starting in October 1990
- Recent cost increase due to changes in market conditions



Year	Kiefer (tons)	NARS (tons)	Total (tons)
FY 10/11	325	320	645
FY 11/12	355	295	650
FY 12/13	250	275	525
FY 13/14	195	290	485
FY 14/15	175	275	450
FY 15/16	210	350	560
Totals	1,510	1,805	3,315

Paint Program



- Assembly Bill 1343 (Huffman)
- Signed by Governor on September 28, 2010
- County executes a no-cost contract with Visions Paint Recycling on May 28, 2013
- Board approved amended contract with Clean Harbors on June 18, 2013
- PaintCare Program begins at County ABOP & HHW facilities on July 1, 2013
- Reuse reimbursement program with PaintCare begins August 2013

Year	Latex Paint to Visions (gallons)	Latex Paint to Clean Harbors (gallons)	Oil Based Paint to Clean Harbors (gallons)	Total Paint (gallons)	Actual Cost (with PaintCare)	Estimated Cost (without PaintCare)
FY 10/11	N/A	45,750	19,450	65,200	\$185,825	\$185,825
FY 11/12	N/A	40,825	16,800	57,625	\$164,250	\$164,250
FY 12/13	N/A	30,700	19,325	50,025	\$137,850	\$137,850
FY 13/14	35,800	0	5,550	41,350	\$14,750	\$126,500
FY 14/15	40,200	0	4,300	44,500	\$5,350	\$125,350
FY 15/16	50,550	0	4,525	55,075	(\$2,000)	\$153,050
Totals	126,550	117,275	69,950	313,775	\$506,025	\$892,825

County Collections

- Garbage
- Green Waste
- Single Stream Recycling
- Neighborhood Clean-Up (ABNCU)
- Illegal Dumping



Description	FY 10/11 (tons)	FY 11/12 (tons)	FY 12/13 (tons)	FY 13/14 (tons)	FY 14/15 (tons)	FY 15/16 (tons)
Households Served	147,931	148,167	148,756	149,123	149,882	150,309
Garbage	130,750	128,650	128,100	127,725	129,250	130,625
Green Waste	74,725	74,625	76,650	69,600	70,100	70,800
Single Stream Recycling	38,450	36,750	36,800	36,425	36,750	37,575
ABNCU	6,450	4,925	4,550	4,675	7,025	8,800
Illegal Dumping	625	580	670	355	385	430

Green Waste Program



- Residential Green Waste was implemented in February 1997
- The County's first contractor processed the green waste materials from February 1997 to April 2002 under a unit bid price cost structure
- From April 2002 until March 2006 the materials were processed by a different contractor, still under a unit bid cost structure
- The Biomass Fuel Blend pilot project began in March 2006.



Year	Green Waste Processed (tons)	Cost of Processing	Market Rate Cost of Processing	Cost Avoidance
FY 10/11	74,750	\$1,080,750	\$2,204,575	(\$1,123,825)
FY 11/12	75,050	\$1,405,700	\$2,213,750	(\$808,050)
FY 12/13	76,650	\$1,412,075	\$2,261,500	(\$849,425)
FY 13/14	69,600	\$1,324,175	\$2,213,750	(\$889,575)
FY 14/15	70,100	\$1,213,675	\$2,229,375	(\$1,015,700)
FY 15/16	70,500	\$1,269,350	\$2,241,875	(\$972,525)
Totals	101,175	\$7,705,725	\$13,364,825	(\$5,659,100)

Single Stream Recycling Program



- Single Stream Recycling was implemented in April 1998
- The County's first contractor processed the single stream materials from April 1998 to February 2006 under market based structure
- From March 2006 until February 2013 the materials were processed under a fixed price structure
- Currently, processing occurs under a market based price structure



Year	Fixed Price (tons)	Market Based Price (tons)	Total (tons)	Revenue (annual)
FY 10/11	38,450	N/A	38,450	\$ 670,800
FY 11/12	36,750	N/A	36,750	\$ 546,875
FY 12/13	25,975	10,825	36,800	\$ 829,900
FY 13/14	N/A	36,425	36,425	\$ 1,108,150
FY 14/15	N/A	36,750	36,750	\$ 952,975
FY 15/16	N/A	37,575	37,575	\$ 742,675
Totals	101,175	121,575	222,750	\$ 4,851,375

Neighborhood Clean-Up (NCU)

- Bulky Waste Clean-Up or NCU was implemented in 1990
- Regular annual NCU was changed to Appointment Based NCU (ABNCU) in March 2006
 - Reduced illegal dumping in NCU scheduled areas
 - Reduced scavenging of piles put out for NCU collection
- Some material diverted from NCU program, but most disposed
- Contracted with a local processor for the processing of NCU material in July 2014 at a cost of \$38.00/ton with a guarantee of 75% diversion



Year	Garbage (tons)	Recycled (tons)	Processed (tons)	Total Collected (tons)
FY 10/11	6,435	2,420	N/A	8,855
FY 11/12	4,930	2,015	N/A	6,945
FY 12/13	4,545	1,330	N/A	5,875
FY 13/14	4,675	340	N/A	5,015
FY 14/15	5,275	20	1,760	7,055
FY 15/16	5,850	10	2,950	8,810
Totals	31,710	6,135	4,710	42,555

Market Driven Contracts

- Biomass Fuel (Federal Diesel Fuel Index)
- Metals (American Metals Market Index)
- Single Stream Recyclables (Recycled Commodities Index)
- eWaste (Recycled Commodities Index)
- Cardboard (Recycled Commodities Index)
- Curbside Containers
 - Old Containers (Recycled Commodities Index)
 - New Containers (New Plastic Resins Index)

Bottles & Cans Recycling

California Refund Value (CRV)

- CRV Redemption Centers
 - AB 2020 - Bottle Bill
 - Redemption Centers
 - Grocery Stores
- SB 842 - Designated Programs, Grants, & Fees (current legislative session)
 - Processing Payments (\$211,500 for 2015)
 - City/County Payments (\$149,000 for 2014)
 - Supplemental Curbside Collector's Payments (\$258,000 for 2014)
- Residential Collection - Single Stream Cart

Organics Recycling

- Green Waste
- Food Waste
 - AB 1826 - Commercial Food Waste (SWA)
 - Collected by SWA franchised haulers
 - Materials managed by private sector infrastructure
 - Residential Food Waste (County)
 - On the planning horizon
 - Not currently on the regulatory horizon
 - Higher contamination of material expected - to process locally, would need new local processing infrastructure or send to processing facility outside of the county

What does this mean to the Rate Payers?

Revenues, Costs, or Cost Avoidance of certain market based materials

Year	Green Waste and Wood & Brush Cost Avoidance	Single Stream Recycling Revenue	Metals Revenue	Mattresses Revenue Tipping Fees or MRC Contract	eWaste Revenue	Tires (Cost) Net of Tipping Fees and Costs	PaintCare Product Stewardship Program Cost Avoidance	Totals (Excludes Cost Avoidance)	Totals Cost Avoidance and Revenues/ (Costs)
FY 10/11	\$1,123,825	\$670,800	\$1,397,050	\$ 23,350	\$407,650	(\$22,850)	0	\$2,476,000	\$3,599,825
FY 11/12	\$808,050	\$546,875	\$1,121,750	\$ 24,575	\$331,500	(\$10,550)	0	\$2,014,150	\$2,822,200
FY 12/13	\$849,425	\$829,900	\$734,700	\$ 36,700	\$303,300	(\$2,025)	0	\$1,902,575	\$2,752,000
FY 13/14	\$889,575	\$1,108,150	\$664,050	\$ 34,825	\$268,800	(\$1,950)	\$111,750	\$2,073,875	\$3,075,200
FY 14/15	\$1,015,700	\$952,975	\$612,400	\$ 40,675	\$302,500	(\$2,900)	\$120,000	\$1,905,650	\$3,041,350
FY 15/16	\$972,525	\$742,675	\$259,450	\$ 62,775	\$175,150	(\$12,750)	\$155,050	\$1,227,300	\$2,354,875
Totals	\$5,659,100	\$4,851,375	\$4,789,400	\$ 222,900	\$1,788,900	(\$53,025)	\$386,800	\$11,599,550	\$17,645,450

Questions?