

## LANDFILL ENTERPRISE FUND

FY 2010 will see the continuation of various improvements to the Glendale Municipal Landfill and the Materials Recovery Facility (MRF), including the replacement of equipment that has reached the end of their useful life including forklifts, bull dozers and a MRF loader.

Continuing in FY 2010 are projects that will lay the groundwork for the closing of the south area of the Glendale Landfill and preparing the north expansion area for future waste cell development as identified in Landfill Development Plan (October 2001).



**Project Name:** MRF Process Line Improvements  
**Fund #:** 2440  
**Project #:** 78518

**Project Name:** MRF Facility Improvements  
**Fund #:** 2440  
**Project #:** 78516



**FY 2010 - 2019 Capital Improvement Program  
Capital Projects By Fund and Project Number**

**Fund: Landfill (2440)**

**Category: Other**

<b>Project Name:</b>	<b>Carryover:</b>	<b>FY 09-10:</b>	<b>FY 10-11:</b>	<b>FY 11-12:</b>	<b>FY 12-13:</b>	<b>FY 13-14:</b>	<b>FY 14-19:</b>
<b>Existing Assets</b>							
<i>Improvement of Existing Assets</i>							
78516 MRF Facility Improvements	109,471	0	0	0	0	0	0
78518 MRF Process Line Improvements	437,574	0	0	0	0	0	0
<i>Replacement of Existing Assets</i>							
78506 Landfill Repl Pickup Truck	0	0	72,895	0	0	0	52,468
78509 MRF Forklifts	0	32,600	33,400	0	0	0	232,400
78511 Landfill Compactor Replacement	0	0	0	0	952,160	0	1,054,504
78512 Fuel Tanker Replacement	0	0	0	0	0	0	255,780
78514 Sanitation Insp Trucks - 17740	0	22,661	0	0	0	59,406	204,203
78520 Landfill Bulldozer Replacement	757,190	0	0	0	0	1,436,225	1,218,000
78521 MRF Loader Replacement	311,375	0	0	0	0	0	507,500
T2350 LF Water Pull Tractor Replace	0	0	543,025	0	0	0	710,500
T2360 Landfill Motor Grader Replace	0	0	263,900	0	0	0	0
T2370 Landfill Auger Scraper Replace	0	0	0	0	0	1,436,225	0
<b>Sub-Total - Existing Assets</b>	<b>1,615,610</b>	<b>55,261</b>	<b>913,220</b>	<b>0</b>	<b>952,160</b>	<b>2,931,856</b>	<b>4,235,355</b>
<b>New Assets</b>							
78502 Landfill Screening Berm	0	0	0	0	0	0	715,981
78503 Landfill Closure (South)	0	0	0	334,144	7,082,532	0	0
78505 Landfill Liner Installation	204,982	0	0	4,799,412	0	0	4,799,412
78507 Landfill Soil Excavation	4,045,902	0	0	0	0	0	4,045,902
78508 Landfill Stormwater Drainage	216,688	0	0	0	166,042	0	0
78519 Landfill Entrance Signal	1,322,379	0	0	0	0	0	0
<b>Sub-Total - New Assets</b>	<b>5,789,951</b>	<b>0</b>	<b>0</b>	<b>5,133,556</b>	<b>7,248,574</b>	<b>0</b>	<b>9,561,295</b>
<b>Total Landfill Projects:</b>	<b>\$7,405,561</b>	<b>\$55,261</b>	<b>\$913,220</b>	<b>\$5,133,556</b>	<b>\$8,200,734</b>	<b>\$2,931,856</b>	<b>\$13,796,650</b>
<b>Total FY 09-10 Funding:</b>	<b>\$7,460,822</b>						

\* New Project

## FY 2010-2019 Capital Improvement Plan Capital Project Detail

**Fund: Landfill (2440)**

**Category: Other**

**Project: 78516 - MRF Facility Improvements (I)**

**Funding Source:**

Landfill Revenues

**Project Description:**

A variety of projects to improve the MRF facility including: a perimeter fence for controlling litter (\$40,000), started in FY 2009; a maintenance shop, parts warehouse and office (\$100,000); and shelving for the parts warehouse (\$10,000) in FY 2011.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Carryover	\$109,471	\$0	\$0	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$109,471</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Operating Description:**

No additional O and M is needed.

**Project: 78518 - MRF Process Line Improvements (I)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Improvements to the MRF recyclable materials processing line. Improvements will aid in increasing production throughput and separation quality of processed materials. Improvements include the addition of a line load leveler, two container blower systems, additional conveyor belts and a separation screen.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Carryover	\$437,574	\$0	\$0	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$437,574</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Operating Description:**

No additional O and M is needed.

**Project: 78506 - Landfill Repl Pickup Truck (R)**

**Funding Source:**

Landfill Revenues

**Project Description:**

The landfill currently has five pickup trucks in its equipment fleet, in which four trucks will require replacement during this 10-year Capital Improvement Plan. Two pickup trucks will reach the end of their serviceable life in 2011, and replacement will occur in 2015 for the other two trucks. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund. The pick up trucks at the landfill are used by the landfill inspector, crew leader, supervisor and the spotters who direct traffic on the site, and assist in litter collection.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Equipment	\$0	\$72,895	\$0	\$0	\$0	\$52,468
<b>TOTAL</b>	<b>\$0</b>	<b>\$72,895</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$52,468</b>

**Operating Description:**

No additional O and M cost as new equipment will replace aging existing equipment.

\* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

## FY 2010-2019 Capital Improvement Plan Capital Project Detail

**Fund: Landfill (2440)**

**Category: Other**

**Project: 78509 - MRF Forklifts (R)**

**Funding Source:**

Landfill Revenues

**Project Description:**

The MRF currently has a total of five forklifts in its fleet used for a variety of heavy lifting purposes including loading, unloading, and transporting recyclable bales. This project includes the replacement of two forklifts reaching the end of their serviceable lives in FY 2010 and FY 2011 as well as replacement of forklifts that will be due for replacement during the second five years. The MRF forklifts have an estimated service life of six years. MRF vehicles and equipment are not included in the Vehicle Replacement Fund.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Equipment	\$32,600	\$33,400	\$0	\$0	\$0	\$232,400
<b>TOTAL</b>	<b>\$32,600</b>	<b>\$33,400</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$232,400</b>

**Operating Description:**

No additional O and M cost as new equipment will replace aging existing equipment.

**Project: 78511 - Landfill Compactor Replacement (R)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Replacement of landfill compactors that will reach the end of their serviceable lives in FY 2013 and FY 2016. The compactor is an essential piece of equipment used on a daily basis for proper placement and compaction of solid waste into the landfill. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund but instead are debt financed at the time of acquisition.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Finance Charges	\$0	\$0	\$0	\$14,072	\$0	\$15,584
Equipment	\$0	\$0	\$0	\$938,088	\$0	\$1,038,920
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$952,160</b>	<b>\$0</b>	<b>\$1,054,504</b>

**Operating Description:**

No additional O and M cost as new equipment will replace aging existing equipment.

**Project: 78512 - Fuel Tanker Replacement (R)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Replacement of a landfill fuel tanker that will reach the end of its serviceable life in FY 2018. The current fuel tanker was purchased in 2008 and replacement will be necessary in ten years. Landfill equipment is not included in the Vehicle Replacement Fund. The fuel tanker truck refuels the diesel equipment on the site so as to maximize efficiency of the equipment around the working face of the landfill.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$3,780
Equipment	\$0	\$0	\$0	\$0	\$0	\$252,000
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$255,780</b>

**Operating Description:**

No additional O and M cost as new equipment will replace aging existing equipment.

\* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

## FY 2010-2019 Capital Improvement Plan Capital Project Detail

**Fund: Landfill (2440)**

**Category: Other**

**Project: 78514 - Sanitation Insp Trucks - 17740 (R)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Sanitation inspectors enforce the regulations related to refuse collection, recycling collection, and loose trash services. They contact residents to respond to questions and educate residents on proper procedures for services. Demand for the work inspection staff performs is anticipated to grow as housing increases. Purchase of nine pickups over a 10-year period including one additional truck in FY 2015 due to growth. Service life is projected to be approximately seven years for newly purchased equipment. FY 2010, one replacement truck at a projected cost of \$22,661. FY 2014, two replacement trucks costing a projected \$29,703 each. In addition, another new inspector and truck will be needed in FY 2015 at a projected cost of \$ 31,783. FY 2016, four replacement at a cost of \$34,008 each. In FY 2017, a replacement truck at a cost of \$36,388.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Finance Charges	\$335	\$0	\$0	\$0	\$878	\$3,020
Equipment	\$22,326	\$0	\$0	\$0	\$58,528	\$201,183
<b>TOTAL</b>	<b>\$22,661</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$59,406</b>	<b>\$204,203</b>

**Operating Description:**

Staffing includes salary and benefits. In FY 2015 a new inspector is planned at a projected cost of \$69,133. Equipment Maintenance costs are included for one new growth truck. Insurance cost is based on the current average cost (\$3,390) per employee for Fund 2480.

**Operating Costs:**

	2010	2011	2012	2013	2014	2015-2019
Staffing	\$0	\$0	\$0	\$0	\$0	\$69,133
Equip. Maint.	\$0	\$0	\$0	\$0	\$0	\$17,732
Insurance	\$0	\$0	\$0	\$0	\$0	\$3,390
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$90,255</b>

**Project: 78520 - Landfill Bulldozer Replacement (R)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Replacement of two landfill bulldozers that will reach the end of their serviceable life in FY 2014 (Model D-9) and FY 2019 (Model D-8). Landfill vehicles and equipment are not included in the Vehicle Replacement Fund. Bulldozers used at landfill primarily to push garbage into position so that the compactors can crush the debris so as to maximize compaction.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Finance Charges	\$0	\$0	\$0	\$0	\$21,225	\$18,000
Equipment	\$0	\$0	\$0	\$0	\$1,415,000	\$1,200,000
Carryover	\$757,190	\$0	\$0	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$757,190</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,436,225</b>	<b>\$1,218,000</b>

**Operating Description:**

No additional O and M cost as new equipment will replace aging existing equipment.

\* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

## FY 2010-2019 Capital Improvement Plan Capital Project Detail

**Fund: Landfill (2440)**

**Category: Other**

**Project: 78521 - MRF Loader Replacement (R)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Replacement of loader used to move recyclables from truck tipping floor to MRF processing line. The current loader was purchased in FY 2009, and this unit will be due for replacement in FY 2017. MRF vehicles and equipment are not included in the Vehicle Replacement Fund.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$7,500
Equipment	\$0	\$0	\$0	\$0	\$0	\$500,000
Carryover	\$311,375	\$0	\$0	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$311,375</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$507,500</b>

**Operating Description:**

No additional O and M cost as new equipment will replace aging existing equipment.

**Project: T2350 - LF Water Pull Tractor Replace (R)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Replacement of a water pull tractor that will reach the end of its serviceable life in FY 2011. This machine is critical to reducing dust and staying compliant with the existing air quality permit. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Finance Charges	\$0	\$8,025	\$0	\$0	\$0	\$10,500
Equipment	\$0	\$535,000	\$0	\$0	\$0	\$700,000
<b>TOTAL</b>	<b>\$0</b>	<b>\$543,025</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$710,500</b>

**Operating Description:**

No additional O and M cost as new equipment will replace aging existing equipment.

**Project: T2360 - Landfill Motor Grader Replace (R)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Replacement of Motor Grader that will reach the end of its serviceable life in FY 2011. The Motor Grader is used to establish and maintain the temporary roads on the active portion of the landfill. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Finance Charges	\$0	\$3,900	\$0	\$0	\$0	\$0
Equipment	\$0	\$260,000	\$0	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$0</b>	<b>\$263,900</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Operating Description:**

No additional O and M cost as new equipment will replace aging existing equipment.

\* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

## FY 2010-2019 Capital Improvement Plan Capital Project Detail

**Fund: Landfill (2440)**

**Category: Other**

**Project: T2370 - Landfill Auger Scraper Replace (R)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Replacement of the auger scraper that will reach the end of its serviceable life in FY 2014. It will be 11 years old with 15,000 to 17,000 hours. The scraper is used to remove dirt from the earth that is used for daily and intermittent cover of the refuse at the landfill. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Finance Charges	\$0	\$0	\$0	\$0	\$21,225	\$0
Equipment	\$0	\$0	\$0	\$0	\$1,415,000	\$0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,436,225</b>	<b>\$0</b>

**Operating Description:**

No additional O and M cost as new equipment will replace aging existing equipment.

**Project: 78502 - Landfill Screening Berm (N)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Design, construction and landscaping of screening berms along the east boundary of the north landfill expansion area. This will provide for visual improvements for residents in the area that are east of the landfill. The screening berm project was identified in the Glendale Landfill Development Plan (October 2001).

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Design	\$0	\$0	\$0	\$0	\$0	\$70,000
Construction	\$0	\$0	\$0	\$0	\$0	\$600,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$10,581
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$29,400
Arts	\$0	\$0	\$0	\$0	\$0	\$6,000
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$715,981</b>

**Operating Description:**

Landscape maintenance and water cost will be covered under annual landfill closure.

\* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

## FY 2010-2019 Capital Improvement Plan Capital Project Detail

**Fund: Landfill (2440)**

**Category: Other**

**Project: 78503 - Landfill Closure (South) (N)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Closure of south areas of landfill after permitted air space is completely filled with waste. It is projected that the 140 acres in the south half of the landfill will reach approved refuse capacity during FY 2013. Closure will take place during FY 2014.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Design	\$0	\$0	\$325,000	\$325,000	\$0	\$0
Construction	\$0	\$0	\$0	\$6,500,000	\$0	\$0
Finance Charges	\$0	\$0	\$4,939	\$104,237	\$0	\$0
Engineering Charges	\$0	\$0	\$4,205	\$88,295	\$0	\$0
Arts	\$0	\$0	\$0	\$65,000	\$0	\$0
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$334,144</b>	<b>\$7,082,532</b>	<b>\$0</b>	<b>\$0</b>

**Operating Description:**

Annual cost for post-closure landscape maintenance, methane gas management and ongoing environmental monitoring after site is closed.

**Operating Costs:**

	2010	2011	2012	2013	2014	2015-2019
Landscape	\$0	\$0	\$0	\$0	\$0	\$900,000
<b>TOTAL</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$900,000</b>

**Project: 78505 - Landfill Liner Installation (N)**

**Funding Source:**

Landfill Revenues

**Project Description:**

This project is required for the development of the northern portion of the landfill and includes phased installation of liner and leachate collection system. It is anticipated that the north portion of the landfill will be accepting waste in 2013. Funds identified in FY 2012 will pay for the costs associated with lining half of the north cell. As operational demands fill the landfill site over time, the second half of the north cell will need to be lined in approximately 10 years.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Design	\$0	\$0	\$100,000	\$0	\$0	\$100,000
Construction	\$0	\$0	\$4,536,288	\$0	\$0	\$4,536,288
Finance Charges	\$0	\$0	\$71,511	\$0	\$0	\$71,511
Engineering Charges	\$0	\$0	\$46,250	\$0	\$0	\$46,250
Arts	\$0	\$0	\$45,363	\$0	\$0	\$45,363
Carryover	\$204,982	\$0	\$0	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$204,982</b>	<b>\$0</b>	<b>\$4,799,412</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,799,412</b>

**Operating Description:**

No additional O and M is needed at this time.

\* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset

## FY 2010-2019 Capital Improvement Plan Capital Project Detail

**Fund: Landfill (2440)**

**Category: Other**

**Project: 78507 - Landfill Soil Excavation (N)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Excavation of north expansion area to prepare for future waste cell development. The north expansion area of the landfill must be lowered an additional 80 ft before it can be lined and prepared for the future landfilling operations. This project was identified in the Landfill Development Plan (October 2001). As expansion into the north cell begins, only half of the north cell will be used. Excavation of the 2nd half of the north cell will take place in the 2nd five years.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Design	\$0	\$0	\$0	\$0	\$0	\$25,000
Construction	\$0	\$0	\$0	\$0	\$0	\$3,874,350
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$61,558
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$46,250
Arts	\$0	\$0	\$0	\$0	\$0	\$38,744
Carryover	\$4,045,902	\$0	\$0	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$4,045,902</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$4,045,902</b>

**Operating Description:**

No additional O and M is needed at this time.

**Project: 78508 - Landfill Stormwater Drainage (N)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Construction of a series of storm water diversion devices that are necessary to minimize erosion of the landfill final cover surface. A total of 17 storm water drainage devices (down drains) are part of the original landfill design as shown in the 2001 Solid Waste Facility Plan Amendment. The down drains are a component of the final cover system, so it is necessary for this project to occur simultaneously with the landfill South area closure project.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Construction	\$0	\$0	\$0	\$150,118	\$0	\$0
Finance Charges	\$0	\$0	\$0	\$2,423	\$0	\$0
Engineering Charges	\$0	\$0	\$0	\$12,000	\$0	\$0
Arts	\$0	\$0	\$0	\$1,501	\$0	\$0
Carryover	\$216,688	\$0	\$0	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$216,688</b>	<b>\$0</b>	<b>\$0</b>	<b>\$166,042</b>	<b>\$0</b>	<b>\$0</b>

**Operating Description:**

Repairs to drains will be completed by staff on site, no additional contractual maintenance is anticipated until closure of the south half of the landfill occurs in FY 2013.

**Project: 78519 - Landfill Entrance Signal (N)**

**Funding Source:**

Landfill Revenues

**Project Description:**

Construction of a deceleration lane into landfill and a traffic signal. A traffic signal and right hand deceleration and turn lane will improve safety at the intersection. Design of such a signal will also allow the staff and visitors of the public safety training facility to integrate into this signal once it is merited.

**Capital Costs:**

	2010	2011	2012	2013	2014	2015-2019
Carryover	\$1,322,379	\$0	\$0	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$1,322,379</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**Operating Description:**

No additional O and M is needed.

\* New Project

N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset