

LANDFILL ENTERPRISE FUND

FY 2013 will see the replacement of a number of Glendale Municipal Landfill equipment including a water pull tractor, a motor grader and a scraper. Starting in FY 2014 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). It is projected that the 140 acres in the south half of the landfill will reach approved filling capacity by FY 2015. In preparation for the closing of the south end of the landfill, a combination of carryover and new funding is also available in FY 2013 for relocation of the scalehouse closer to the north end of the landfill.



Project Name: Landfill Entrance Signal

Fund #: 2440

Project #: 78519

Picture Note: Project was completed during FY 2011



FUND SUMMARY: 2440-Landfill **Category: Other**

Capital Project Expenses	FY 2013:		FY 2014:	FY 2015:	FY 2016:	FY 2017:	FYs 18-22:
	Carrvoer	New Funding					
Existing Assets							
<i>Improvement of Existing Assets</i>							
78523 Scalehouse & Road Relocation	52,900	1,073,061	0	0	0	0	0
78526 *LF Gas System Modifications	0	455,359	274,954	0	0	0	0
<i>Replacement of Existing Assets</i>							
78506 Landfill Repl Pickup Truck	0	0	130,000	29,300	0	0	158,300
78509 MRF Forklifts	0	0	32,506	33,481	0	0	108,000
78511 Landfill Compactor Replacement	0	0	0	983,007	0	1,042,872	0
78512 Fuel Tanker Replacement	0	0	0	0	0	0	187,775
78514 Sanitation Insp Trucks - 17740	0	0	59,406	0	136,032	35,000	35,000
78520 Landfill Bulldozer Replacement	0	0	0	0	182,700	253,750	2,135,220
78521 MRF Loader Replacement	0	0	0	0	0	0	228,019
78522 LF Water Pull Tractor Replace	492,275	0	0	0	0	0	624,063
78524 Landfill Motor Grader Replace	0	320,953	0	0	0	0	0
78525 Landfill Scraper Equipment	0	375,000	0	0	0	0	1,551,313
Sub-Total - Existing Assets	545,175	2,224,373	496,866	1,045,788	318,732	1,331,622	5,027,690
New Assets							
78503 Landfill Closure (South)	0	0	516,654	205,304	9,100,874	0	0
78505 LF Phase Construction (North)	0	0	0	102,738	4,606,800	102,738	4,349,425
78507 Landfill Soil Excavation	0	0	102,581	13,007,990	0	0	0
Sub-Total - New Assets	0	0	619,235	13,316,032	13,707,674	102,738	4,349,425
Total Project Expenses:	\$545,175	\$2,224,373	\$1,116,101	\$14,361,820	\$14,026,406	\$1,434,360	\$9,377,115
Total FY 2013 Funding:		\$2,769,548					

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

FY 2013-2022 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2440-Landfill

Category: Other

Project: 78523 - Scalehouse & Road Relocation (I)

Funding Source:

Landfill Revenues

Project Description:

Project provides for roadway improvements to the internal entrance roadway and relocation of the scale house to be closer to the north area. This project will relocate the other facilities supporting the landfill operation including the equipment maintenance area as well as the administrative and field staff office trailers. The scale house and other landfill facilities are currently located where waste will be placed prior to closing the south area of the landfill. According to the landfill's waste capacity calculations, it will take approximately one year to fill this permitted air space. It will be necessary to relocate the scale house in FY 2013 based on our anticipated waste acceptance rate.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Design	\$50,000	\$70,000	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$787,500	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$750	\$13,313	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$2,150	\$36,873	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$7,875	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$157,500	\$0	\$0	\$0	\$0	\$0
TOTAL	\$52,900	\$1,073,061	\$0	\$0	\$0	\$0	\$0

Operating Description:

No additional O and M is required for this project.

Project: 78526* - LF Gas System Modifications (I)

Funding Source:

Landfill Revenues

Project Description:

The Glendale Landfill is required by federal and state environmental regulations to install and maintain an active gas collection system within the landfill. Project provides for improvements to the existing gas collection system including retrofits, extensions, and modifications to the vertical extraction wells and lateral collection pipes. Because the gas wells and collection pipes presently are located above-ground level within the active landfill area, it is necessary to complete the gas well modifications and improvements ahead of filling the landfill sections with additional waste. Project scope also includes burying of the above-ground lateral collection pipes to allow for simpler waste filling operations. This project is required to maintain the sequencing plan developed for waste filling in the landfill through the end of FY 2014.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Design	\$0	\$35,000	\$25,000	\$0	\$0	\$0	\$0
Construction	\$0	\$356,900	\$212,000	\$0	\$0	\$0	\$0
Finance Charges	\$0	\$5,879	\$3,555	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$18,321	\$11,079	\$0	\$0	\$0	\$0
Arts	\$0	\$3,569	\$2,120	\$0	\$0	\$0	\$0
Contingency	\$0	\$35,690	\$21,200	\$0	\$0	\$0	\$0
TOTAL	\$0	\$455,359	\$274,954	\$0	\$0	\$0	\$0

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



PROJECT DETAIL: 2440-Landfill

Category: Other

Project: 78506 - Landfill Repl Pickup Truck (R)

Funding Source:

Landfill Revenues

Project Description:

Landfill currently has six pickup trucks in its equipment fleet that will require replacement over the next ten years. Pickup trucks are used by the landfill inspector, mechanic, crew leader, supervisor, and field employees. Two trucks will reach the end of their serviceable life in FY 2014 and FY 2015. The vehicle due for replacement in FY 2014 is a heavy duty truck equipped with an 11 foot crane, heavy duty tool boxes, air compressor, and a gas welder. The project also includes the replacement of four trucks reaching the end of their service life during the second five years. These replacement trucks include a flat bed truck and a pickup both with Tommy lifts in FY 2019, a pickup in FY 2021, and a pickup in FY 2022. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund. Instead the vehicles are purchased with cash or financed at the time of acquisition.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Equipment	\$0	\$0	\$130,000	\$29,300	\$0	\$0	\$158,300
TOTAL	\$0	\$0	\$130,000	\$29,300	\$0	\$0	\$158,300

Operating Description:

No additional O and M is needed since new equipment will replace existing equipment that is expected to reach the end of its serviceable life.

Project: 78509 - MRF Forklifts (R)

Funding Source:

Landfill Revenues

Project Description:

The Materials Recovery Facility (MRF) currently has a total of four 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 that are expected to reach the end of their serviceable lives in FY 2014 and FY 2015 as well as replacement of forklifts that will be due for replacement during the second five years. Replacement of forklifts in the second five years is scheduled to occur in FY 2019, FY 2021 and FY 2022 at an approximate cost of \$36,000 per piece of equipment. The MRF forklifts have an estimated service life of approximately seven years, although replacement schedules may be adjusted depending on hours of use and equipment condition. MRF vehicles and equipment are not included in the Vehicle Replacement Fund. Instead the equipment is purchased with cash or financed at the time of acquisition.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Equipment	\$0	\$0	\$32,506	\$33,481	\$0	\$0	\$108,000
TOTAL	\$0	\$0	\$32,506	\$33,481	\$0	\$0	\$108,000

Operating Description:

No additional O and M is needed since new equipment will replace existing equipment that are expected to reach the end of their serviceable lives.

Project: 78511 - Landfill Compactor Replacement (R)

Funding Source:

Landfill Revenues

Project Description:

Project provides for the rebuild and replacement of the landfill compactors at the end of their serviceable life or on an appropriate schedule based on current usage hours and equipment condition. One compactor, which was purchased in 2000, will reach the end of its serviceable life in FY 2015 and require replacement. The other compactor, which was purchased in 2007, will require a certified rebuild or new replacement in FY 2017. The compactors are essential pieces of equipment used on a daily basis for proper placement and compaction of solid waste within the landfill. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund. Instead the equipment is purchased with cash or financed at the time of acquisition.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Finance Charges	\$0	\$0	\$0	\$14,527	\$0	\$15,412	\$0
Equipment	\$0	\$0	\$0	\$968,480	\$0	\$1,027,460	\$0
TOTAL	\$0	\$0	\$0	\$983,007	\$0	\$1,042,872	\$0

Operating Description:

No additional O and M is needed since new equipment will replace existing equipment this is expected to reach the end of its serviceable life.

* New Project

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FY 2013-2022 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2440-Landfill **Category: Other**

Project: 78512 - Fuel Tanker Replacement (R) **Funding Source:** Landfill Revenues

Project Description: Replacement of the fuel tanker, which was purchased in 2008, and is expected to reach the end of its serviceable life in FY 2018. The fuel tanker truck transports diesel fuel from the on site storage tank to the landfill heavy equipment located on the active waste disposal area. It is an essential piece of support equipment at the landfill for maximizing operational efficiencies and minimizing equipment downtime. Landfill equipment is not included in the Vehicle Replacement Fund. Instead the equipment is purchased with cash or financed at the time of acquisition.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$2,775
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$185,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$187,775

Operating Description: No additional O and M is needed since new equipment will replace existing equipment that is expected to reach the end of its serviceable life.

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. Purchase of eight replacement pickups over a 10-year period. Service life is projected to be approximately seven years. In FY 2014, two replacement trucks costing a projected \$29,703 each. In FY 2016, four replacement trucks at a cost of \$34,008 each. In FY 2017, a replacement truck at a cost of \$35,000. In FY 2018, one replacement truck at a cost of \$35,000.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Finance Charges	\$0	\$0	\$891	\$0	\$2,040	\$525	\$525
Equipment	\$0	\$0	\$58,515	\$0	\$133,992	\$34,475	\$34,475
TOTAL	\$0	\$0	\$59,406	\$0	\$136,032	\$35,000	\$35,000

Operating Description: No additional O and M is needed for this project.

Project: 78520 - Landfill Bulldozer Replacement (R) **Funding Source:** Landfill Revenues

Project Description: Project provides for the rebuild and/or replacement of the landfill bulldozers at the end of their serviceable life or on an appropriate schedule based on current usage hours and equipment condition. Both Model D-8 and Model D-9 bulldozers will require a powertrain rebuild in FY 2016 and FY 2017, respectively. This project also includes funds for replacement of the Model D-8 bulldozer in FY 2019 and the Model D-9 bulldozer in FY 2020. Bulldozers are used at the landfill primarily to push garbage into position for the compactors. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund. Instead the equipment is purchased with cash or financed at the time of acquisition.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Finance Charges	\$0	\$0	\$0	\$0	\$2,700	\$3,750	\$31,555
Equipment	\$0	\$0	\$0	\$0	\$180,000	\$250,000	\$2,103,665
TOTAL	\$0	\$0	\$0	\$0	\$182,700	\$253,750	\$2,135,220

Operating Description: No additional O and M is needed since new equipment will replace existing equipment that is expected to reach the end of its serviceable life.

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



PROJECT DETAIL: 2440-Landfill

Category: Other

Project: 78521 - MRF Loader Replacement (R)

Funding Source:

Landfill Revenues

Project Description:

Replacement of loader used to move recyclables from the Materials Recovery Facility (MRF) tipping floor to the processing line. The current loader was purchased in FY 2009 and is expected to reach the end of its serviceable life in FY 2019. MRF vehicles and equipment are not included in the Vehicle Replacement Fund. Instead the equipment is purchased with cash or financed at the time of acquisition.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$3,420
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$224,599
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$228,019

Operating Description:

No additional O and M is needed since new equipment will replace existing equipment that is expected to reach the end of its serviceable life.

Project: 78522 - LF Water Pull Tractor Replace (R)

Funding Source:

Landfill Revenues

Project Description:

Replacement of water pull truck, which was purchased in 2012 and is expected to reach the end of its serviceable life in FY 2020. The water pull truck is a critical piece of support equipment for reducing dust and maintaining compliance with the existing air quality permit. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund. Instead the equipment is purchased with cash or financed at the time of acquisition.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$9,222
Equipment	\$492,275	\$0	\$0	\$0	\$0	\$0	\$614,841
TOTAL	\$492,275	\$0	\$0	\$0	\$0	\$0	\$624,063

Operating Description:

No additional O and M is needed since new equipment will replace aging existing equipment.

Project: 78524 - Landfill Motor Grader Replace (R)

Funding Source:

Landfill Revenues

Project Description:

Replacement of the motor grader that is expected to reach the end of its serviceable life in FY 2013. The motor grader is an essential piece of support equipment 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. Instead the equipment is purchased with cash or financed at the time of acquisition.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Finance Charges	\$0	\$4,743	\$0	\$0	\$0	\$0	\$0
Equipment	\$0	\$316,210	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$320,953	\$0	\$0	\$0	\$0	\$0

Operating Description:

No additional O and M is needed since new equipment will replace existing equipment that is expected to reach the end of its serviceable life.

* New Project

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FY 2013-2022 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2440-Landfill

Category: Other

Project: 78525 - Landfill Scraper Equipment (R)

Funding Source:

Landfill Revenues

Project Description:

The scraper is an essential piece of support equipment that excavates, transports, and stockpiles soil used for covering waste disposed at the landfill. Project provides for a powertrain rebuild of the landfill auger scraper in FY 2013. Funds are also programmed during the second five years for either a certified rebuild or a new replacement of the scraper, which is anticipated to occur in FY 2018 based on hours of use and equipment condition. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund. Instead the equipment is purchased with cash or financed at the time of acquisition.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$22,926
Equipment	\$0	\$375,000	\$0	\$0	\$0	\$0	\$1,528,387
TOTAL	\$0	\$375,000	\$0	\$0	\$0	\$0	\$1,551,313

Operating Description:

No additional O and M is needed since new equipment will replace existing equipment that is expected to reach the end of its serviceable life.

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

Funding Source:

Landfill Revenues

Project Description:

Project provides for closure of the south area of the landfill after the permitted air space is completely filled with waste. A landfill reaching its permitted capacity is required by federal and state law to be closed with a final cover system, which includes a vegetative layer, a compacted soil layer, additional gas system wells, erosion control, and storm water control measures. Funds in FY 2014 provide for the installation of six out of the sixteen needed storm water drainage devices (down drains) on the eastern and southern portions of the landfill, which are anticipated to reach final grade in 2013. Installation of the remaining storm water devices will be completed as part of final closure of the entire 140-acre south area, which is anticipated to reach filling capacity in early 2016.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Design	\$0	\$0	\$50,000	\$200,000	\$250,000	\$0	\$0
Construction	\$0	\$0	\$376,320	\$0	\$7,152,522	\$0	\$0
Finance Charges	\$0	\$0	\$6,395	\$3,000	\$111,038	\$0	\$0
Engineering Charges	\$0	\$0	\$4,912	\$2,304	\$85,284	\$0	\$0
Arts	\$0	\$0	\$3,763	\$0	\$71,525	\$0	\$0
Contingency	\$0	\$0	\$75,264	\$0	\$1,430,505	\$0	\$0
TOTAL	\$0	\$0	\$516,654	\$205,304	\$9,100,874	\$0	\$0

Operating Description:

Funds provided in supplies/contracts are annual costs for post-closure (\$220,554) at the landfill. Post-closure costs include monitoring, maintenance, and repair of the following items: landfill gas control system, groundwater monitoring system, storm water monitoring, final cover/vegetative cover inspection, landfill settlement monitoring, access roads, drainage control system, site security inspection, and administrative reporting. Annual post-closure maintenance, monitoring, and repair activities will begin once closure of the south area is completed.

Operating Costs:	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Supplies/Contr	\$0	\$0	\$0	\$220,554	\$220,554	\$1,102,770
TOTAL	\$0	\$0	\$0	\$220,554	\$220,554	\$1,102,770

* New Project

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



PROJECT DETAIL: 2440-Landfill

Category: Other

Project: 78505 - LF Phase Construction (North) (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 a of liner and a leachate collection system. Funds identified in FY 2015 (\$102,738) will be used for engineering design. Funds in FY 2016 (\$4,606,800) will pay for construction of North Phase 1a, which is anticipated to begin accepting waste in 2017. Funds identified in FY 2017 (\$102,738) will be used for engineering design of North Phase 1b. Funds identified in FY 2018 (\$4,349,225) will pay for construction of North Phase 1b, which is anticipated to begin accepting waste in 2019.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Design	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	\$100,000
Construction	\$0	\$0	\$0	\$0	\$3,640,000	\$0	\$3,432,000
Finance Charges	\$0	\$0	\$0	\$1,500	\$56,100	\$1,500	\$52,980
Engineering Charges	\$0	\$0	\$0	\$1,238	\$46,300	\$1,238	\$43,725
Arts	\$0	\$0	\$0	\$0	\$36,400	\$0	\$34,320
Contingency	\$0	\$0	\$0	\$0	\$728,000	\$0	\$686,400
TOTAL	\$0	\$0	\$0	\$102,738	\$4,606,800	\$102,738	\$4,349,425

Operating Description:

No additional O and M is needed for this project.

Project: 78507 - Landfill Soil Excavation (N)

Funding Source:

Landfill Revenues

Project Description:

This project provides for excavation of Phase 1 in the north expansion area to prepare for future landfill cell development. It includes excavation of approximately one-third of the north expansion area, removal of berm located between the north area and the Materials Recovery Facility (MRF) as well as utility relocation due to berm removal. Excavated soil will be stockpiled in various storage locations on the landfill property. Excavation of the remaining two-thirds will occur as part of future landfill phase construction.

Capital Costs:	Carryover	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FYs 18-22
Design	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$10,442,915	\$0	\$0	\$0
Finance Charges	\$0	\$0	\$1,500	\$158,144	\$0	\$0	\$0
Engineering Charges	\$0	\$0	\$1,081	\$113,919	\$0	\$0	\$0
Arts	\$0	\$0	\$0	\$104,429	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$2,088,583	\$0	\$0	\$0
TOTAL	\$0	\$0	\$102,581	\$13,007,990	\$0	\$0	\$0

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