**MEETING DATE:** 07/13/15

**AGENDA ITEM:** PUBLIC HEARING - Adoption of a Resolution Confirming the Assessment and Ordering the Levy for the Refuse and Recycling User's Service Charges Beginning Fiscal Year 2015/2016

## ATTACHMENTS

RESOLUTION NO. 2015-R__________

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CULVER CITY, CALIFORNIA, CONFIRMING THE LEVY AND COLLECTION OF MUNICIPAL SOLID WASTE HANDLING FEES EFFECTIVE JULY 1, 2015.

WHEREAS, Section 5.01.070 of the Culver City Municipal Code authorizes the City Council to establish, by resolution, fees for the handling of municipal solid waste ("MSW"); and

WHEREAS, the City Council has heard all testimony and considered all objections to the proposed MSW fees at a duly noticed public hearing held on July 13, 2015 and has determined to proceed with the levy and collection of MSW fees effective July 1, 2015.

NOW, THEREFORE, the City Council of the City of Culver City, DOES HEREBY RESOLVE as follows:

1. Pursuant to CCMC Section 5.01.070, the City Council hereby overrules any objections and confirms the collection of MSW fees as set forth in the Engineer's Report approved on May 11, 2015 to pay the costs and expenses for the operation, maintenance, repair and improvements necessary to provide the City's MSW services, effective July 1, 2015.

2. The collection of MSW fees as set forth in the Engineer's Report shall be performed pursuant to law, including CCMC Section 5.01.070.B, which provides for collection of fees by placement on the property tax bills or by monthly billing. For residential service, the County Auditor shall enter on the County Assessment Roll the amount of the assessment and the assessment shall be collected



1

at the same time and in the same manner as the County property taxes are collected. After collection by the County, the net amount of the assessment shall be paid to the City of Culver City. Commercial service shall be billed monthly.

3. Upon receipt of monies representing assessments collected by the County, the City shall deposit the monies into a special fund known as the "Sanitation Enterprise Fund."

4. Immediately upon the adoption of this Resolution, the City Clerk shall file a certified copy of this Resolution, which includes the Engineer's Report containing the approved refuse collection fees, with the County Auditor.

5. A certified copy of the Engineer's Report shall also be filed in the Office of the City Engineer, with a duplicate copy on file in the Office of the City Clerk, and shall be open for public inspection.

APPROVED and ADOPTED this ______ day of ________________ 2015.

____________________________
MICHEÁL O'LEARY, Mayor
City of Culver City, California

ATTEST:

____________________________
MARTIN R. COLE, City Clerk

A15-00443

APPROVED AS TO FORM:

____________________________
for CAROL A. SCHWAB, City Attorney



2

CHARLES D. HERBERTSON
Public Works Director/City Engineer

PUBLIC WORKS DEPARTMENT
9770 CULVER BOULEVARD, 2ND FLOOR
CULVER CITY, CALIFORNIA 90232-0507

Phone (310) 253-5600
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# ENGINEER'S REPORT

# BEGINNING FY 2015-16

# REFUSE AND RECYCLING USER'S SERVICE CHARGE

# IN THE CITY OF CULVER CITY UNDER THE

# PROVISIONS

# OF CHAPTER 5.02 OF THE CODE OF THE CITY OF

# CULVER CITY, CALIFORNIA

FILED with the City Clerk
on May 6, 2015

PRESENTED to the City Council
and APPROVED by Resolution
No. 2015-R____, adopted by said
City Council on May 11, 2015
and thereafter filed in the
Office of the City Clerk

______________________________
Martin Cole
City Clerk
City of Culver City

TO: The Honorable Mayor and Members of the City Council

FROM: Charles D. Herbertson, Public Works Director and City Engineer

**CITY ENGINEER'S REPORT FOR REFUSE AND RECYCLING USER'S SERVICE CHARGES BEGINNING FISCAL YEAR 2015-16**

7/1/2015

Charles D. Herbertson RCE 46658
Public Works Director and City Engineer

REGISTERED PROFESSIONAL ENGINEER
CHARLES D HERBERTSON
No. 46658
Exp 06/30/2017
CIVIL
STATE OF CALIFORNIA

## PURPOSE

The purpose of this transmittal is to summarize the findings of the Refuse Rate Study that NBS performed for Culver City's Refuse Utility (City or Utility). NBS' findings focus on: (1) equitably allocating Utility costs to the various customer classes and types of services, (2) adjusting various charges and rates in a manner that meets Proposition 218 requirements, and (3) provides a plan that is financially sustainable.

Projected Utility revenue requirements and rate adjustments cover the next four years (2015-16 through 2019-20). Recommended rate adjustments for 2015-16 retain the City's current rate structure, although a number of duplicate rates were combined while others that were no longer considered to be applicable were eliminated. Broader objectives also included more accurately reflecting actual operational and disposal costs, while keeping rates for recycling and diversion-related programs at levels that continue to encourage waste reduction. These changes are explained in more detail below.

Three appendices are included in this transmittal:

- Appendix A: Selected Tables for the Financial Plan and Revenue Requirement Analysis
- Appendix B: Selected Tables for the Cost-of-Service
- Appendix C: Selected Tables for the Rate Design Analysis

## OVERVIEW

A comprehensive refuse rate study typically includes the three key components shown in Exhibit 1, which are based on general utility industry standard cost of service methodologies.[1] The cost-of-service component in particular addresses the general requirements of equity and fairness embodied in Proposition 218. In terms of the chronology, these three steps represent the order they were performed in this study. Previous rate studies were performed internally by the Utility.

[1] Cost-of-service principles for refuse rates are very similar to those for other utilities, such as water and sewer. A good general reference for rate study methodologies is "*Principles of Water Rates, Fees, and Charges, Manual of Water Supply Practices*", *Manual M1, American Water Works Association, sixth edition, 2012.*

**Exhibit 1. PRIMARY COMPONENTS OF A RATE STUDY**

| 1 FINANCIAL PLAN / REVENUE REQUIREMENTS | 2 COST-OF-SERVICE ANALYSIS | 3 RATE DESIGN ANALYSIS |
|---|---|---|
| Step 1: Financial Plan/ Revenue Requirements – Compares current sources of funds (revenues) to uses of funds (expenses) and determines the revenue needed from rates. | Step 2: Cost-of-Service Analysis – Allocates the revenue requirements to the various customer classes (i.e., residential, commercial, roll-off) in a "fair and equitable" manner. | Step 3: Rate Design – Considers the rate structure and rates that best meet the Utility's need to collect the annual revenue requirements from each customer class. |

As a result of this rate study, the proposed new rates include changes in the total amount of rate revenue collected, the revenue collected from each customer class, as well as individual rates and charges. The following are the key findings, followed by a summary of each of the three parts of this rate analysis.

## KEY RATE STUDY FINDINGS

The following are NBS' key findings based on our analysis of the City's refuse revenue requirements, cost of service, and rate design issues. More details are provided in the following sections.

- **Revenue Requirements by Customer Class** – Based on the results of the cost-of-service analysis, the City's current refuse rates need to be adjusted to collect at least three percent more revenue from refuse rates. The rate revenue collected from each customer class should be approximately 31% from residential, 53% from commercial, and 16% from drop box/roll-off customers.

- **Changes in Rate Design** – The Utility's basic rate design has not changed, although there have been a number of similar rates that have been combined and others, which were determined to be either un-used or no longer applicable, were eliminated.

- **Recycling and Waste Reduction Objectives** – Due in large part to State-mandated waste reduction goals, the City has a broader objective of encouraging recycling and related waste diversion activities. Because of this, recycling and waste diversion services were designed to provide sufficient incentives for customers to continue, or increase their participation in these programs. This is a critical aspect of the City's ability to meet State-mandated waste reduction goals.

## FINANCIAL PLAN AND REVENUE REQUIREMENTS ANALYSIS

**Projected Revenue Requirements and Rate Increases** – NBS prepared a detailed five-year financial plan, which is summarized in Exhibit 2. The results of this plan indicate that the Utility will need at least a three percent rate increases in each of the next five years (2015/16 through 2019/20). However, this plan does not fully fund planned capital improvements at the transfer station.

**Cash Management and Target Reserve Fund Balances –** The Utility is projected to begin Fiscal Year 2015/16 with a total cash balance of $3.16 million. Exhibit 3 summarizes the cash balances for the operating and capital reserve funds along with the recommended target reserves. As shown in this table, the capital reserve is inadequate at this time to fund the transfer station improvements, which total approximately $2.5mil. Once the Utility begins construction of these planned transfer station improvements, the capital reserve will be drawn down and the target ending balance should be re-set to a lower amount.

### Exhibit 2. Summary of Projected Five-Year Revenue Requirements and Rate Increases

| Summary of Sources and Uses of Funds and Net Revenue Requirements | Budget FY 2014/15 | Projected FY 2015/16 | FY 2016/17 | FY 2017/18 | FY 2018/19 | FY 2019/20 |
|---|---|---|---|---|---|---|
| ***Sources of Refuse Utility Funds*** | | | | | | |
| Rate Revenue Under Prevailing Rates | $ 11,153,057 | $ 11,153,057 | $ 11,153,057 | $ 11,153,057 | $ 11,153,057 | $ 11,153,057 |
| Interest Earnings *(from Reserves)* | 385,049 | 385,049 | 385,049 | 385,049 | 385,049 | 385,049 |
| Other Non-Rate Revenues & Grants | 524,168 | 524,168 | 524,168 | 524,168 | 524,168 | 524,168 |
| **Total Sources of Funds** | **$ 12,062,274** | **$ 12,062,274** | **$ 12,062,274** | **$ 12,062,274** | **$ 12,062,274** | **$ 12,062,274** |
| ***Uses of Refuse Utility Funds*** | | | | | | |
| Refuse Collection - Personnel Services | $ 3,544,725 | $ 3,686,514 | $ 3,833,975 | $ 3,987,334 | $ 4,146,827 | $ 4,312,700 |
| " " - Maint. & Operations | 4,033,476 | 4,154,480 | 4,279,115 | 4,407,488 | 4,539,713 | 4,675,904 |
| " " - Capital Outlay | 100,000 | 103,000 | 106,090 | 109,273 | 112,551 | 115,927 |
| *Subtotal: Refuse Collection* | $ 7,678,201 | $ 7,943,994 | $ 8,219,179 | $ 8,504,094 | $ 8,799,091 | $ 9,104,532 |
| Transfer Station - Personnel Services | 789,857 | 821,451 | 854,309 | 888,482 | 924,021 | 960,982 |
| " " - Maint. & Operations | 2,783,273 | 2,867,271 | 2,953,814 | 3,042,980 | 3,134,848 | 3,229,501 |
| " " - Debt Services | 163,630 | 163,630 | 163,630 | 163,630 | 163,630 | 163,630 |
| *Subtotal: Transfer Station* | $ 3,736,760 | $ 3,852,352 | $ 3,971,754 | $ 4,095,092 | $ 4,222,499 | $ 4,354,113 |
| Recycling - Personnel Services | 198,065 | 205,988 | 214,227 | 222,796 | 231,708 | 240,976 |
| " - Maint. & Oper. *(Net of Materials Rev.)* | 18,705 | 19,266 | 19,844 | 20,439 | 21,053 | 21,684 |
| *Subtotal: Recycling* | $ 216,770 | $ 225,254 | $ 234,071 | $ 243,236 | $ 252,761 | $ 262,661 |
| *Debt Service* | $ 163,630 | $ 163,629 | $ 163,628 | $ 163,631 | $0 | $0 |
| *Total Uses of Refuse Disposal Funds* | $ 11,795,361 | $ 12,185,230 | $ 12,588,632 | $ 13,006,053 | $ 13,274,350 | $ 13,721,305 |
| **Surplus (Deficiency) before Rate Increase** | **$ 266,913** | **$ (122,956)** | **$ (526,358)** | **$ (943,779)** | **$ (1,212,076)** | **$ (1,659,031)** |
| *Additional Revenue from Rate Increases* | *$ -* | *$ 334,592* | *$ 679,221* | *$ 1,034,190* | *$ 1,399,807* | *$ 1,776,393* |
| ***Total Rate Revenue - Including Rate Increases*** | ***$ -*** | ***$ 11,487,649*** | ***$ 11,832,278*** | ***$ 12,187,247*** | ***$ 12,552,864*** | ***$ 12,929,450*** |
| **Surplus (Deficiency) after Rate Increase** | **$ 266,913** | **$ 211,636** | **$ 152,863** | **$ 90,411** | **$ 187,731** | **$ 117,361** |
| ***Projected Annual Rate Increase*** | ***0.00%*** | ***3.00%*** | ***3.00%*** | ***3.00%*** | ***3.00%*** | ***3.00%*** |
| **Net Revenue Requirement[1]** | **$ 11,393,312** | **$ 11,276,013** | **$ 12,186,583** | **$ 12,604,004** | **$ 12,872,301** | **$ 13,319,256** |

*1. Total Use of Funds less non-rate revenues and interest earnings. This is the annual amount needed from refuse disposal rates.*

### Exhibit 3. Summary of Projected Five-Year Reserve Funds

| SUMMARY OF RESERVE FUNDS | Estimate FY 2014/15 | Projected FY 2015/16 | FY 2016/17 | FY 2017/18 | FY 2018/19 | FY 2019/20 |
|---|---|---|---|---|---|---|
| **Total Beginning Cash (1)** | **$ 2,894,484** | $ 3,161,397 | $3,373,033 | $3,525,896 | $3,616,307 | $3,804,038 |
| ***Operating Reserve*** | | | | | | |
| Beginning Reserve Balance (2) | $ 2,894,484 | $ 2,908,000 | $ 3,005,000 | $ 3,106,000 | $ 3,196,411 | $ 3,319,000 |
| Plus: Net Cash Flow (After Rate Increases) | 266,913 | 211,636 | 152,863 | 90,411 | 187,731 | 117,361 |
| Less: Transfer Out to Capital Replacement Reserve | (253,397) | (114,636) | (51,863) | - | (65,141) | (6,361) |
| ***Ending Operating Reserve Balance*** | ***$ 2,908,000*** | ***$ 3,005,000*** | ***$ 3,106,000*** | ***$ 3,196,411*** | ***$ 3,319,000*** | ***$ 3,430,000*** |
| *Target Ending Balance (25% of Operating Budget)* | *$ 2,908,000* | *$ 3,005,000* | *$ 3,106,000* | *$ 3,211,000* | *$ 3,319,000* | *$ 3,430,000* |
| ***Capital Reserve*** | | | | | | |
| Beginning Reserve Balance (2) | $ - | $ 253,397 | $ 368,033 | $ 419,896 | $ 419,896 | $ 485,038 |
| Plus: Transfer of Operating Reserve Surplus | 253,397 | 114,636 | 51,863 | - | 65,141 | 6,361 |
| Less: Use of Reserves for Capital Projects | - | - | - | - | - | - |
| ***Ending Capital Reserve Balance*** | ***$ 253,397*** | ***$ 368,033*** | ***$ 419,896*** | ***$ 419,896*** | ***$ 485,038*** | ***$ 491,399*** |
| *Target Ending Balance (3)* | *$ 2,500,000* | *$ 2,500,000* | *$ 2,500,000* | *$ 2,500,000* | *$ 2,500,000* | *$ 2,500,000* |
| ***Ending Balance*** | **$ 3,161,397** | **$ 3,373,033** | **$ 3,525,896** | **$ 3,616,307** | **$ 3,804,038** | **$ 3,921,399** |
| ***Minimum Target Ending Balance*** | **$ 5,408,000** | **$ 5,505,000** | **$ 5,606,000** | **$ 5,711,000** | **$ 5,819,000** | **$ 5,930,000** |
| *Ending Surplus/(Deficit) Compared to Reserve Targets* | ***$ (2,246,603)*** | ***$ (2,131,967)*** | ***$ (2,080,104)*** | ***$ (2,094,693)*** | ***$ (2,014,962)*** | ***$ (2,008,601)*** |
| *Annual Interest Earnings Rate (4)* | *0.25%* | *0.25%* | *0.50%* | *0.75%* | *1.00%* | *1.25%* |

(1) Total beginning cash balance was provided by City staff via email on January 5, 2015. Cash balance as of January 5, 2015.

(2) For purposes of this analysis, NBS assumes that Refuse Disposal funds are available for an Operating Reserve, and any annual surpluses generated beyond FY 2015/16 will fund a Capital Rehabilitation & Replacement Reserve.

(3) The Capital Reserve target is typically set to 3% of net assets; the current net capital asset value is $1,585,341, per the City of Culver City CAFR for FY 2013/14. However, the primary capital need is to fund future capital improvements at the trnasfer station, and City staff has set a target of $2.5 million to fund these projects. Once these improvements are completed, the target balance for the capital reserve should be reduced to about 3% of the net asset value.

(4) Historical interest earning rates were referenced on the CA Treasurer's Office website for funds invested in LAIF. Future years earnings were conservatively estimated through 2023 and phase into the historical 10-year average interest earnings rate.

NBS' recommended reserve fund balance targets are as follows:

- **Operating Reserve -** 25% or 90 days of operating and maintenance expenses.
- **Capital Rehabilitation and Replacement Reserve -** $2.5 million for the purpose of funding transfer station improvements, then 3% of system net assets.

**Funding of Transfer Station Capital Improvement Projects** – The Utility has several planned capital improvements at the transfer station, with the first two having the highest priority:

- Weigh scale replacement ($250,000)
- Stormwater diversion system ($1.0 mil.)
- Office Expansion ($1.0 mil.)
- Locker room expansion ($130,000)

Although this financial plan does not fully fund these improvements, the Utility will begin these projects in FY 2015/16 using reserves to the extent possible, and fund the remaining ones when sufficient funds are available.

## COST-OF-SERVICE ANALYSIS

The purpose of the cost-of-service analysis is to equitably allocate the refuse utility costs, or the net revenue required from refuse rates, to each customer class. Although Prop 218 specifically refers to "property-related" fees and user charges, recent court rulings addressing Prop 218 rate design issues have established that the focus of fairness and equity is established on the basis of "customer classes" rather than individual customers. Effectively this means that the City is obligated to fairly allocate refuse program costs to the three customer classes (residential, commercial and roll-off/drop box services). The third step in this rate study (rate design) deals with how the costs allocated to each customer class are further allocated to individual rates for the various types of service within each customer class.

The cost-of-service analysis includes two primary steps:

1. **Classifying various expenditures to one of several types of costs:**
    a. Collection system-related costs
    b. Transfer station-related costs
    c. Disposal-related costs
    d. Recycling-related costs
    e. General and administrative costs (G&A)
2. **Allocating costs to customer classes based on specific allocation factors:**
    a. Collection costs are allocated based on a detailed analysis of staffing costs and by sub-dividing these costs into residential vs. commercial programs (roll-off/drop costs are treated as a separate collection program within this analysis).
    b. Transfer station costs are allocated based on total tonnages of materials handled by customer class (residential, commercial, and roll-off/drop box).
    c. Disposal costs are allocated also allocated based on tonnages of materials handled at the transfer station, excluding recycled materials, which are processed at recycling facilities rather than "disposal" facilities.
    d. Recycling costs are separated into residential and commercial classes for budgetary purposes, and the recycling costs addressed here are only commercial costs, which are allocated exclusively to commercial customers.

e. G&A costs are allocated by a more general allocation method that uses the average of the total number of accounts served within each customer class[2] and the percentage of all non-G&A costs for each customer class.

This analysis produced the cost allocations for each customer class for FY 2015/16 shown in Exhibit 4, along with a summary of the refuse rate revenue currently collected from each customer class. We note that Exhibit 4 indicates that $11.49 million should be recovered through refuse rates. This total reflects a three-percent increase in the City's current rate revenue, as previously shown in Exhibit 2. These amounts of rate revenue are further broken down in the rate design analysis. There are also other miscellaneous charges for special services[3] not included in Exhibit 4 that total another $0.41 million.

**Exhibit 4. Revenue Requirements by Customer Class from COS Analysis**

| Summary of Cost Allocations to Customer Classes | | | | |
|---|---|---|---|---|
| Cost Categories | Customer Classes | | | Total |
| | Residential | Bin Service | Drop Box | |
| Collection Costs | $2,151,837 | $3,051,973 | $0 | $5,203,810 |
| Transfer Station | $190,669 | $376,084 | $249,997 | $816,751 |
| Disposal | $590,907 | $1,172,053 | $778,374 | $2,541,334 |
| Roll-Off/Drop Box | $0 | $0 | $662,455 | $662,455 |
| Recycling | $0 | $941,347 | $0 | $941,347 |
| General & Administrative | $648,187 | $553,552 | $120,213 | $1,321,952 |
| **Total Cost-of-Service** | **$3,581,601** | **$6,095,009** | **$1,811,039** | **$11,487,649** |
| ***Percent of Total*** | ***31%*** | ***53%*** | ***16%*** | ***100.0%*** |
| *Current Revenue* | *$3,345,319* | *$5,696,795* | *$1,693,386* | *$10,735,500* |

## RATE DESIGN AND PROPOSED RATES

The purpose of the rate design analysis is to determine how to collect rate revenue (i.e., as shown in Exhibit 4) from the individual rates for specific services within each of the customer classes. Accurately allocating these amounts of rate revenue improves the overall equity among customer classes. However, it was also necessary to consider broader recycling and waste diversion goals when setting individual rates within each customer class. That is, if recycling and waste diversion costs result in rates that are higher than refuse collection/disposal, they should be adjusted to ensure that customers are not incentivized to placing their recyclable materials into refuse collection because it's cheaper than recycling service. For example, disposal cost for yardwaste and compostable materials is $47/ton and most construction/demolition waste is $51/ton, which is actually higher than it is for general refuse disposal ($31/ton).

As a result of this rate study, some rates and charges increase by more or less than the general three-percent rate increase. Also, the City currently assesses a 100% penalty for drop box containers that exceed the maximum weight limit of 11 tons (i.e., the disposal rate is doubled). Since this penalty is not a Prop 218-based rate (i.e., it is intended to discourage overloading containers, which can result in violation of the maximum tonnages that can be transported on public roads and highways), NBS and City staff agreed that a lowering of this penalty to 50% would still be a sufficient deterrent to overloading containers. Exhibits 5 and 6 summarize the current and proposed FY 2015/16 rates.

[2] A smaller portion of these costs (i.e., 25% less) were allocated to residential customers because charges for residential customers are placed on the property tax rolls, thereby reducing the G&A burden for these customers. Commercial and roll-off customers are billed monthly on an individual customer basis.

[3] These include bin pull-out, lock set, bulk item pick-up, and pedestrian (downtown) can collection.

**Exhibit 5. Current and Proposed Residential and Commercial Refuse Rates**

| Proposed Residential and Commercial (Bin) Refuse Service - Scheduled Monthly & *One-Time* Rates | | | |
|---|---|---|---|
| **Customer Class & Level-of-Service** | **Current Refuse Rates** *($/mo. or lift)* | **Proposed 2015/16 Refuse Rates** *($/mo. or lift)* | *% Change* |
| **Residential Service** | | | |
| Residential Automated Collection | *$29.30/mo.* | $31.38/mo. | *7%* |
| Can Service - Residential | *$29.30/mo.* | $31.38/mo. | *7%* |
| Can Service - Commercial | *$26.64/mo.* | $28.24/mo. | *6%* |
| Extra Auto Can - Refuse | *$5.00/mo.* | $15.00/mo. | *200%* |
| **Commercial (Bin) Service** | | | |
| Scheduled Commercial (Bin) Service | | | |
| 2-CY Sched Refuse (1x/week) | *$113.90/mo.* | $117.85/mo. | *3%* |
| 3-CY Sched Refuse (1x/week) | *$139.92/mo.* | $144.79/mo. | *3%* |
| 3-CY Sched Refuse (300g) (1x/week) | *$139.92/mo.* | $144.79/mo. | *3%* |
| Unscheduled/One-time/On-Call Commercial (Bin) Service | | | |
| *2-CY Call/Extra Pickup - Refuse* | *$27.77/lift* | $28.69/lift | *3%* |
| *3-CY Call/Extra Pickup - Refuse* | *$41.67/lift* | $43.05/lift | *3%* |
| *2-CY Collection (On-Call Residential)* | *$27.77/lift* | $28.69/lift | *3%* |
| *3-CY Collection Trash (Residential)* | *$41.67/lift* | $43.05/lift | *3%* |
| Yardwaste/Composting Commercial (Bin) Service | | | |
| 2-CY Sched. Yard Waste | *$43.29/mo.* | $69.26/mo. | *60%* |
| 3-CY Sched. Yard Waste | *$45.69/mo.* | $73.10/mo. | *60%* |
| *2-CY Call Yard Waste* | *$8.33/lift* | $15.02/lift | *80%* |
| *3-CY Call Organic/Yard Waste* | *$9.05/lift* | $17.05/lift | *88%* |
| Recycling Commercial (Bin) Service | | | |
| Can Service - Recyclables | *$12.56/lift* | $12.56/lift | *0%* |
| 2-CY Sched. & MFR Mixed Recycle | *$28.94/mo.* | $28.94/mo. | *0%* |
| 3-CY Sched Comm./MFR Recycle | *$30.67/mo.* | $30.67/mo. | *0%* |
| *2-CY Call Recycle* | *$6.61/lift* | $6.61/lift | *0%* |
| *3-CY Call Recycle* | *$7.17/lift* | $7.17/lift | *0%* |
| Waste-to-Energy Commercial (Bin) Service | | | |
| 3-CY Sched Waste-to-Energy | *$139.92/mo.* | $155.00/mo. | *11%* |
| 2-CY Call Waste-to-Energy | *$27.77/lift* | *$30.82/lift* | *11%* |
| 3-CY Call Waste-to-Energy | *$41.67/lift* | *$46.25/lift* | *11%* |
| Miscellaneous Services | | | |
| *Bin Rental - 2 & 3 CY Bins ($/mo.)* | *$46.31/mo.* | $48.00/mo. | *4%* |
| *Scheduled Miss Stop* | *$0* | $0 | *0%* |
| *Scheduled Bin Pull-Out* | *$31.77/mo.* | *$32.72/mo.* | *3%* |
| *On-call Bin Pull-Out (one-time)* | *$6.68/bin* | *$6.88/bin* | *3%* |
| *Bulk Pick-up* | *$41.13/bin* | *$42.36/bin* | *3%* |
| *Bulk Pick-up Additional* | *$20.56/bin* | *$21.18/bin* | *3%* |
| *Bin Lock-set* | *$9.62/mo.* | *$9.91/mo.* | *3%* |
| *2-CY Temp Del/Rem* | *$8.33/lift* | $8.58/lift | *3%* |
| *3-CY Temp Del/Rem* | *$8.33/lift* | $8.58/lift | *3%* |
| *Pedestrian Can/Scooter* | *$41.21/mo./can* | $42.45/mo./can | *3%* |

**Exhibit 6. Current and Proposed Drop Box Refuse Rates**

| Proposed Drop Box Refuse Service - Scheduled Monthly & *One-Time* Rates | | | |
|---|---|---|---|
| **Drop Box Service Type** | **Current Drop Box Rates** | **Proposed 2015/16 Drop Box Rates** | *% Change* |
| **Drop Box Collection Only (Empties)** | | | |
| DB 8-CY Empty | *$162.36 /empty* | $167.23 */empty* | *3%* |
| DB 30-CY Empty | *$162.36 /empty* | $167.23 */empty* | *3%* |
| DB 40-CY Empty | *$162.36 /empty* | $167.23 */empty* | *3%* |
| DB 50-CY Empty | *$162.36 /empty* | $167.23 */empty* | *3%* |
| DB Compactor Empty | *$162.36 /empty* | $167.23 */empty* | *3%* |
| **Drop Box Tonnage Only** | | | |
| Refuse/MSW | | | |
| Tonnage Refuse Mixed | *$80.87 /ton* | $83.31 */ton* | *3%* |
| Construction/Demolition Recycled Materials | | | |
| Tonnage Metal | *$11.19 /ton* | $22.17 */ton* | *98%* |
| Tonnage Asphalt /Concrete | *$46.22 /ton* | $65.05 */ton* | *41%* |
| Tonnage Wood | *$51.84 /ton* | $90.91 */ton* | *75%* |
| Tonnage Other Inert | *$51.84 /ton* | $65.05 */ton* | *25%* |
| Tonnage C&D Recycle | *$80.87 /ton* | $90.91 */ton* | *12%* |
| Yardwaste & Compost Materials | | | |
| Tonnage Yard Waste | *$51.84 /ton* | $70.46 */ton* | *36%* |
| Waste-to-Energy & Special Compactor | | | |
| Tonnage Waste-To-Energy (MSW) | *$95.87 /ton* | $104.61 */ton* | *9%* |
| Compactor Variable Restaurant *(special)* | *$147.00 /mo.* | $151.41 */mo.* | *3%* |
| Miscellaneous Fee & Charges | | | |
| DB Monthly Rental ($/mo.)[1] | *$143.31 /mo.* | $147.61 */mo.* | *3%* |
| DB Delivery | *$0.00 /empty* | $0.00 */empty* | *0%* |
| DB Respot | *$36.40 /empty* | $37.49 */empty* | *3%* |
| Compactor Variable Non-Restaurant | *$52.00 /mo.* | $53.56 */mo.* | *3%* |
| Communal Compactor Housekeeping | *$90.00 /mo.* | $92.70 */mo.* | *3%* |
| Compactor Administrative Fee | *$80.00 /mo.* | $82.40 */mo.* | *3%* |
| **Additional/Penalty Charges** *(for Tonnages Exceeding 11 tons: Includes Base Rate & Penalty)*[2] | | | |
| Tonnage Refuse Mixed +11T | *$161.75 /ton* | $124.97 */ton* | *-23%* |
| Tonnage Metal +11T | *N.A. /ton* | $33.25 */ton* | *N.A.* |
| Tonnage Asphalt +11T | *$92.44 /ton* | $97.58 */ton* | *6%* |
| Tonnage Wood +11T | *$103.69 /ton* | $136.36 */ton* | *32%* |
| Tonnage All Inerts +11T | *$103.69 /ton* | $97.58 */ton* | *-6%* |
| Tonnage C&D Recycle +11T | *N.A. /ton* | $136.36 */ton* | *N.A.* |
| Tonnage Yard Waste +11T | *$103.69 /ton* | $105.69 */ton* | *2%* |
| Tonnage Waste-To-Energy +11T | *$191.74 /ton* | $156.91 */ton* | *-18%* |

*1. For 8-CY, 30-CY, 40-CY and 50-CY drop boxes.*

*2. Tonnages for less than +11 Tons is included in normal tonnage charge calculations. This rate includes the base rate plus a penalty, which is 50% of the base rate.*

## CONSULTANT RECOMMENDATIONS

Based on the results of this study, NBS recommends the City take the following actions:

- Adopt this rate analysis as the basis for adjustments to the City's current refuse rates.
- Adopt a five-year Refuse Utility financial plan, as summarized in Exhibits 2 and 3, as the "road map" for the Utility's financial management and management of reserves through 2019/20.
- Adopt and implement the proposed refuse rates shown above in Exhibits 5 and 6. This will necessitate a Prop 218 process to adopt the FY 2015/16 rates and, should the City decide to increase rates after FY 2015/16, each year thereafter.

## PRINCIPAL ASSUMPTIONS AND CONSIDERATIONS

In preparing this transmittal and the opinions and recommendations included herein, NBS has relied on a number of assumptions and considerations with regard to financial matters, operating statistics, and other conditions and events that may occur in the future. The information and assumptions, including the Utility's budgets and information from Refuse Utility staff, were provided by sources we believe to be reliable; however, NBS has not independently verified all such information.

While we believe the use of such information and assumptions is reasonable for the purpose of this rate study and transmittal, some assumptions will invariably not materialize as stated herein and may vary significantly due to unanticipated events and circumstances. Therefore, the actual results can be expected to vary from those projected to the extent that actual future conditions differ from those assumed by us or provided to us by others. Given that, the Utility should closely monitor future revenues, costs and capital plans to determine if and when any significant variances from the results shown in this report may occur, and take appropriate action to reconcile differences as needed.

## APPENDICES

Supporting tables that provide more detailed information and analyses are included below. These appendices include tables that generally follow the three steps of the rate study:

- Appendix A: Financial Analysis
- Appendix B: Cost-of-Service Analysis
- Appendix C: Rate Design Analysis

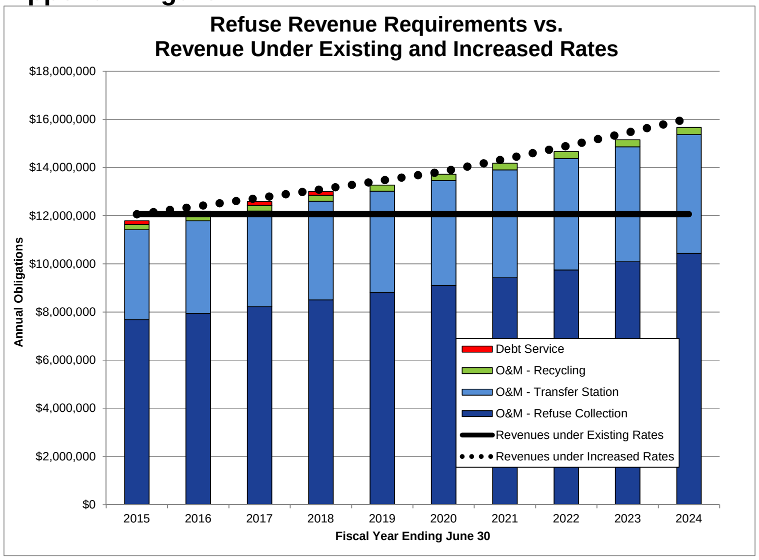
# APPENDIX A – Financial Plan Tables

## Appendix Table A-1

| RATE REVENUE REQUIREMENTS SUMMARY | Estimate | Projected | | | | |
|---|---|---|---|---|---|---|
| | FY 2014/15 | FY 2015/16 | FY 2016/17 | FY 2017/18 | FY 2018/19 | FY 2019/20 |
| ***Sources of Refuse Disposal Funds (1)*** | | | | | | |
| Rate Revenue - Refuse Collection (2): | $ 11,153,057 | $ 11,153,057 | $ 11,153,057 | $ 11,153,057 | $ 11,153,057 | $ 11,153,057 |
| Grant Revenue | $ 10,000 | $ 10,000 | $ 10,000 | $ 10,000 | $ 10,000 | $ 10,000 |
| Interest Income & Penalties | 385,049 | 385,049 | 385,049 | 385,049 | 385,049 | 385,049 |
| Sale of Recycle Items | 507,168 | 507,168 | 507,168 | 507,168 | 507,168 | 507,168 |
| Other Non-Rate Revenues | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 |
| **Total Sources of Funds** | **$ 12,062,274** | **$ 12,062,274** | **$ 12,062,274** | **$ 12,062,274** | **$ 12,062,274** | **$ 12,062,274** |
| ***Uses of Refuse Disposal Funds*** | | | | | | |
| Operating Expenses (1): | | | | | | |
| *Refuse Collection* | | | | | | |
| Personnel Services | $ 3,544,725 | $ 3,686,514 | $ 3,833,975 | $ 3,987,334 | $ 4,146,827 | $ 4,312,700 |
| Maintenance & Operations | 4,033,476 | 4,154,480 | 4,279,115 | 4,407,488 | 4,539,713 | 4,675,904 |
| Capital Outlay | 100,000 | 103,000 | 106,090 | 109,273 | 112,551 | 115,927 |
| *Subtotal: Refuse Collection* | *$ 7,678,201* | *$ 7,943,994* | *$ 8,219,179* | *$ 8,504,094* | *$ 8,799,091* | *$ 9,104,532* |
| *Transfer Station* | | | | | | |
| Personnel Services | $ 789,857 | $ 821,451 | $ 854,309 | $ 888,482 | $ 924,021 | $ 960,982 |
| Maintenance & Operations | 2,783,273 | 2,867,271 | 2,953,814 | 3,042,980 | 3,134,848 | 3,229,501 |
| Capital Outlay | - | - | - | - | - | - |
| Debt Services | 163,630 | 163,630 | 163,630 | 163,630 | 163,630 | 163,630 |
| *Subtotal: Transfer Station* | *$ 3,736,760* | *$ 3,852,352* | *$ 3,971,754* | *$ 4,095,092* | *$ 4,222,499* | *$ 4,354,113* |
| *Recycling* | | | | | | |
| Personnel Services | $ 198,065 | $ 205,988 | $ 214,227 | $ 222,796 | $ 231,708 | $ 240,976 |
| Maintenance & Operations | 18,705 | 19,266 | 19,844 | 20,439 | 21,053 | 21,684 |
| Capital Outlay | - | - | - | - | - | - |
| *Subtotal: Recycling* | *$ 216,770* | *$ 225,254* | *$ 234,071* | *$ 243,236* | *$ 252,761* | *$ 262,661* |
| Subtotal: Operating Expenses | $ 11,631,731 | $ 12,021,601 | $ 12,425,004 | $ 12,842,422 | $ 13,274,350 | $ 13,721,305 |
| Other Expenditures: | | | | | | |
| Existing Debt Service | $ 163,630 | $ 163,629 | $ 163,628 | $ 163,631 | $ - | $ - |
| New Debt Service | - | - | - | - | - | - |
| Rate-Funded Capital Expenses | - | - | - | - | - | - |
| Subtotal: Other Expenditures | $ 163,630 | $ 163,629 | $ 163,628 | $ 163,631 | $ - | $ - |
| **Total Uses of Refuse Disposal Funds** | **$ 11,795,361** | **$ 12,185,230** | **$ 12,588,632** | **$ 13,006,053** | **$ 13,274,350** | **$ 13,721,305** |
| **Net Revenue Reqt.** *(Total Uses less Non-Rate Rev.)* | **$ 11,393,312** | **$ 11,276,013** | **$ 12,186,583** | **$ 12,604,004** | **$ 12,872,301** | **$ 13,319,256** |
| *plus:* Revenue from Rate Increases | - | 334,592 | 679,221 | 1,034,190 | 1,399,807 | 1,776,393 |
| **Annual Surplus/(Deficit)** *(Incl. Rev. from Rate Incr.)* | **$ 266,913** | **$ 211,636** | **$ 152,863** | **$ 90,411** | **$ 187,731** | **$ 117,361** |
| **Total Rate Revenue After Rate Increases** | **$ 11,153,057** | **$ 11,487,649** | **$ 11,832,278** | **$ 12,187,247** | **$ 12,552,864** | **$ 12,929,450** |
| ***Projected Annual Rate Revenue Increase*** | ***0.00%*** | ***3.00%*** | ***3.00%*** | ***3.00%*** | ***3.00%*** | ***3.00%*** |
| *Cumulative Increase from Annual Revenue Increases* | *0.00%* | *3.00%* | *6.09%* | *9.27%* | *12.55%* | *15.93%* |
| *Debt Coverage After Rate Increase (3)* | *2.63* | *2.29* | *1.93* | *1.55* | *N/A* | *N/A* |

(1) Revenue and expenses for FY 2014/15 are from the City's FY 2014/15 Adopted Budget; Inflationary factors are applied to project costs in 2015/16 and beyond.
(2) For the purposes of this analysis, NBS has assumed 0% customer growth.
(3) Debt coverage after rate increase is shown as "N/A" because there are no further outstanding debt obligations.

## Appendix Figure A-1




## Appendix Table A-2

| SUMMARY OF RESERVE FUNDS | Estimate | Projected | | | | |
|---|---|---|---|---|---|---|
| | FY 2014/15 | FY 2015/16 | FY 2016/17 | FY 2017/18 | FY 2018/19 | FY 2019/20 |
| **Total Beginning Cash (1)** | **$ 2,894,484** | $ 3,161,397 | $3,373,033 | $3,525,896 | $3,616,307 | $3,804,038 |
| ***Operating Reserve*** | | | | | | |
| Beginning Reserve Balance (2) | $ 2,894,484 | $ 2,908,000 | $ 3,005,000 | $ 3,106,000 | $ 3,196,411 | $ 3,319,000 |
| Plus: Net Cash Flow (After Rate Increases) | 266,913 | 211,636 | 152,863 | 90,411 | 187,731 | 117,361 |
| Less: Transfer Out to Capital Replacement Reserve | (253,397) | (114,636) | (51,863) | - | (65,141) | (6,361) |
| ***Ending Operating Reserve Balance*** | ***$ 2,908,000*** | ***$ 3,005,000*** | ***$ 3,106,000*** | ***$ 3,196,411*** | ***$ 3,319,000*** | ***$ 3,430,000*** |
| *Target Ending Balance (90-days of O&M)* | *$ 2,908,000* | *$ 3,005,000* | *$ 3,106,000* | *$ 3,211,000* | *$ 3,319,000* | *$ 3,430,000* |
| ***Capital Reserve*** | | | | | | |
| Beginning Reserve Balance (2) | $ - | $ 253,397 | $ 368,033 | $ 419,896 | $ 419,896 | $ 485,038 |
| Plus: Transfer of Operating Reserve Surplus | 253,397 | 114,636 | 51,863 | - | 65,141 | 6,361 |
| Less: Use of Reserves for Capital Projects | - | - | - | - | - | - |
| ***Ending Capital Reserve Balance*** | ***$ 253,397*** | ***$ 368,033*** | ***$ 419,896*** | ***$ 419,896*** | ***$ 485,038*** | ***$ 491,399*** |
| *Target Ending Balance (3)* | *$ 2,000,000* | *$ 2,000,000* | *$ 2,000,000* | *$ 2,000,000* | *$ 2,000,000* | *$ 2,000,000* |
| ***Ending Balance*** | **$ 3,161,397** | **$ 3,373,033** | **$ 3,525,896** | **$ 3,616,307** | **$ 3,804,038** | **$ 3,921,399** |
| ***Minimum Target Ending Balance*** | **$ 4,908,000** | **$ 5,005,000** | **$ 5,106,000** | **$ 5,211,000** | **$ 5,319,000** | **$ 5,430,000** |
| *Ending Surplus/(Deficit) Compared to Reserve Targets* | ***$ (1,746,603)*** | ***$ (1,631,967)*** | ***$ (1,580,104)*** | ***$ (1,594,693)*** | ***$ (1,514,962)*** | ***$ (1,508,601)*** |
| *Annual Interest Earnings Rate (4)* | *0.25%* | *0.25%* | *0.50%* | *0.75%* | *1.00%* | *1.25%* |

(1) Total beginning cash balance was provided by City staff via email on January 5, 2015. Cash balance as of January 5, 2015.

(2) For purposes of this analysis, NBS assumes that Refuse Disposal funds are available for an Operating Reserve, and any annual surpluses generated beyond FY 2015/16 will fund a Capital Rehabilitation & Replacement Reserve.

(3) The Capital Reserve target is typically set to 3% of net assets; the current net capital asset value is $1,585,341, per the City of Culver City CAFR for FY 2013/14. However, the primary capital need is to fund future capital improvements at the trnasfer station, and City staff has set a target of $2 million to fund these projects. Once these improvements are completed, the target balance for the capital reserve should be reduced to about 3% of the net asset value.

(4) Historical interest earning rates were referenced on the CA Treasurer's Office website for funds invested in LAIF. Future years earnings were conservatively estimated through 2023 and phase into the historical 10 year average interest earnings rate.

## Appendix Table A-3

| REFUSE DISPOSAL FUND EXISTING DEBT OBLIGATIONS | Budget | Projected | | | | |
|---|---|---|---|---|---|---|
| **Annual Repayment Schedules: (1)** | FY 2014/15 | FY 2015/16 | FY 2016/17 | FY 2017/18 | FY 2018/19 | FY 2019/20 |
| General Fund | | | | | | |
| Principal Payment | $ 74,565 | $ 79,784 | $ 85,369 | $ 91,346 | $ - | $ - |
| Interest Payment | $ 23,175 | $ 17,955 | $ 12,370 | $ 6,394 | $ - | $ - |
| **Subtotal: Annual Debt Service** | **$ 97,740** | **$ 97,739** | **$ 97,739** | **$ 97,740** | **$ -** | **$ -** |
| Equipment Replacement Fund | | | | | | |
| Principal Payment | $ 43,598 | $ 46,650 | $ 49,915 | $ 53,410 | $ - | $ - |
| Interest Payment | $ 13,550 | $ 10,498 | $ 7,233 | $ 3,739 | $ - | $ - |
| **Subtotal: Annual Debt Service** | **$ 57,148** | **$ 57,148** | **$ 57,148** | **$ 57,149** | **$ -** | **$ -** |
| Innovation Fund | | | | | | |
| Principal Payment | $ 6,669 | $ 7,136 | $ 7,635 | $ 8,170 | $ - | $ - |
| Interest Payment | $ 2,073 | $ 1,606 | $ 1,106 | $ 572 | $ - | $ - |
| **Subtotal: Annual Debt Service** | **$ 8,742** | **$ 8,742** | **$ 8,741** | **$ 8,742** | **$ -** | **$ -** |
| **Grand Total: Existing Annual Debt Service** | **$ 163,630** | **$ 163,629** | **$ 163,628** | **$ 163,631** | **$ -** | **$ -** |

(1) provided by City staff; filename: *Sanitation Loan Payment Schedule.pdf.* Per City staff, loans are internal transactions and have no reserve or coverage requirements.

**Appendix Table A-4**

| Culver City Public Works Department<br>Environmental Programs & Operations Division<br>Current Rate Schedule (1) | | Current Rates<br>*Effective*<br>*7/1/2009* |
|---|---|---|
| **Refuse & Recycling Service Rates** | | |
| 2 Cubic Yard (CY) Bins | | |
| 2CY Scheduled Mixed Recycle | per month (2) | $28.94 |
| 2CY Scheduled Greenwaste | per month (2) | $43.29 |
| 2CY Scheduled Food Waste | per month (2) | $113.90 |
| 2CY Scheduled Trash | per month (2) | $113.90 |
| On-call 2CY Mixed Recycle | per call | $6.61 |
| On-call 2CY Greenwaste | per call | $8.33 |
| On-call 2CY Trash | per call | $27.77 |
| 3 Cubic Yard (CY) Bins | | |
| 3CY Scheduled Mixed Recycle | per month (2) | $30.67 |
| 3CY Scheduled Greenwaste | per month (2) | $45.69 |
| 3CY Scheduled Food Waste | per month (2) | $139.92 |
| 3CY Scheduled Trash | per month (2) | $139.92 |
| On-call 3CY Mixed Recycle | per call | $7.17 |
| On-call 3CY Greenwaste | per call | $9.05 |
| On-call 3CY Trash | per call | $41.67 |
| **Drop Box / Compactor Fees** | | |
| Compactor/Drop Box | oval/Empty plus tor | $162.36 |
| 8CY, 10CY, 40CY | Rental, per month | $143.31 |
| Drop Box / Compactor Fees | Re-spot | $36.40 |
| **Tonnage Fees** | | |
| Less than 11 Tons | | |
| Mixed Metal | per ton | $11.19 |
| Asphalt Disposal | per ton | $46.22 |
| Contaminated Wood | per ton | $51.84 |
| Co-mingled Recyclables | per ton | $30.69 |
| Greenwaste Disposal | per ton | $51.84 |
| Inert Disposal | per ton | $51.84 |
| Food Waste Disposal | per ton | $80.87 |
| Trash Disposal | per ton | $80.87 |
| Greater than 11 Tons | | |
| Mixed Metal | per ton | $22.38 |
| Asphalt Disposal | per ton | $92.44 |
| Contaminated Wood | per ton | $103.69 |
| Co-mingled Recyclables | per ton | $61.38 |
| Greenwaste Disposal | per ton | $103.69 |
| Inert Disposal | per ton | $103.69 |
| Food Waste Disposal | per ton | $161.75 |
| Trash Disposal | per ton | $161.75 |
| **Miscellaneous** | | |
| Temporary Bin Rental | | $46.31 |
| Temporary Bin delivery/removal | | $8.33 |
| Lock Set | | $9.62 |
| Bulk Pickup Fee | | $41.13 |
| Excessive Bulk Pickup Fee | | $20.56 |
| Scheduled Bin Pull-Out | per bin | $31.77 |
| On-call Bin Pull-Out | per bin | $6.68 |

(1) Rates are effective 01/01/2014. Data Source: rate schedule from City's website.

(2) Once a week collection.

## APPENDIX B – Cost-of-Service Analysis Tables

### Appendix Table B-1

| Summary of Cost Allocations to Customer Classes | | | | |
|---|---|---|---|---|
| Cost Categories | Customer Classes | | | Total |
| | Residential | Bin Service | Drop Box | |
| Collection Costs | $2,151,837 | $3,051,973 | $0 | $5,203,810 |
| Transfer Station | $190,669 | $376,084 | $249,997 | $816,751 |
| Disposal | $590,907 | $1,172,053 | $778,374 | $2,541,334 |
| Roll-Off/Drop Box | $0 | $0 | $662,455 | $662,455 |
| Recycling | $0 | $941,347 | $0 | $941,347 |
| General & Administrative | $648,187 | $553,552 | $120,213 | $1,321,952 |
| **Total Cost-of-Service** | **$3,581,601** | **$6,095,009** | **$1,811,039** | **$11,487,649** |
| ***Percent of Total*** | ***31%*** | ***53%*** | ***16%*** | ***100.0%*** |
| *Current Revenue* | *$3,345,319* | *$5,696,795* | *$1,693,386* | *$10,735,500* |

### Appendix Table B-2

| Summary of Refuse Cost Allocations to Customer Classes | | | | | | |
|---|---|---|---|---|---|---|
| Customer Class | ***Collection Costs*** [1] *See Table COSA-1* | | ***Transfer Station Costs*** [2] *See Table COSA-2* | | ***Disposal Costs*** [3] *See Table COSA-2* | |
| | Percent Allocated | Costs Allocated | Percent Allocated | Costs Allocated | Percent Allocated | Costs Allocated |
| Residential | 41.4% | $2,151,837 | 23.3% | $190,669 | 23.3% | $590,907 |
| Bin Service | 58.6% | $3,051,973 | 46.0% | $376,084 | 46.1% | $1,172,053 |
| Drop Box | 0.0% | $0 | 30.6% | $249,997 | 30.6% | $778,374 |
| Total Costs | 100% | $5,203,810 | 100% | $816,751 | 100% | $2,541,334 |
| Customer Class | ***Drop Box Costs*** [4] *See Table COSA-1* | | ***Recycling Costs*** [5] *See Table COSA-1* | | ***G&A Costs*** [6] *See Table COSA-3* | |
| | Percent Allocated | Costs Allocated | Percent Allocated | Costs Allocated | Percent Allocated | Costs Allocated |
| Residential | 0.0% | $0 | 0.0% | $0 | 49.0% | $648,187 |
| Bin Service | 0.0% | $0 | 100.0% | $941,347 | 41.9% | $553,552 |
| Drop Box | 100.0% | $662,455 | 0.0% | $0 | 9.1% | $120,213 |
| Total Costs | 100% | $662,455 | 100% | $941,347 | 100% | $1,321,952 |

*Basis for Cost-of-Service Allocations:*

1. *Collection costs for residential includes refuse, yardwaste & recycling collection; commercial collection services includes yardwaste (as a separate service) but no recycling program costs. From the functionalization and classification analysis.*
2. *Transfer Station percent allocations are for total tonnages received at the transfer station (excluding LA City materials covered under a separate contract); total TS cost is from the functionalization and classification analysis.*
3. *Disposal cost percent allocations are only for disposal tonnages received at the transfer station (excludes recycled materials); total disposal cost is from the functionalization and classification analysis.*
4. *Total Drop Box costs from the functionalization and classification analysis and assumed to include only Drop Box program costs.*
5. *Only includes commercial recycling costs; residential costs were included in residential collection costs and drop box recycling is not considered part of the recycling program. From the Functionalization & Classification analysis.*
6. *General and Administrative (G&A) costs are allocated by the average % of two metrics: (1) total % of all non-G&A costs, and (2) total % of accounts in each customer class (with residential reduced by 25% to account for direct billing on the tax roll).*

**Appendix Table B-3**

*Table COSA-2*
**Summary of Disposal & Recycled Materials Tonnages Received at Transfer Station**
*(Used to Allocate Transfer Station and Disposal Costs)*

| Material Type | Customer Classes (tons)[1] | | | |
|---|---|---|---|---|
| | Residential | Commercial | Drop Box | Total |
| *Recycled Materials Receive at TS[2]* | | | | |
| Total Recycled Tonnages | 1,190 | 2,360 | 1,567 | 5,116 |
| ***Allocation %'s*** | ***23%*** | ***46%*** | ***31%*** | ***100.0%*** |
| *Disposal Materials Receive at TS* | | | | |
| 7 Organic | 12.03 | 148.09 | 1,010.35 | 1,170.47 |
| 8 Christmas Trees | | | 5.30 | 5.30 |
| 10 Refuse Mixed | 7,472.09 | 22,385.00 | 10,568.25 | 40,425.34 |
| 17 Yard Waste | 4,071.13 | 386.51 | 321.98 | 4,779.62 |
| 18 Asphalt/Concrete | | | 1,354.88 | 1,354.88 |
| 19 Wood-Clean | | | 4.47 | 4.47 |
| 20 Wood-Contaminated | | | 181.40 | 181.40 |
| 24 Other Inert | | | 1,774.54 | 1,774.54 |
| Total Disposal Tonnages | 11,555.25 | 22,919.60 | 15,221.17 | 49,696.02 |
| ***Allocation %'s*** | ***23.3%*** | ***46.1%*** | ***30.6%*** | ***100.0%*** |
| **Total Recycled & Disposal** | **12,745** | **25,279** | **16,788** | **54,812** |
| ***Allocation %'s*** | ***23%*** | ***46%*** | ***31%*** | ***100.0%*** |

*1. Source: Culver City, Transaction Summaries by Material Type, 3/24/2015.*
*2. Estimated based on initial tonnage and materials revenue data, which varies through out the year.*

**Appendix Table B-4**

| **Allocation Factors for G&A Costs - Number of Accounts Served** | | | | |
|---|---|---|---|---|
| Customer Class | No. of Accounts | Adjustment for Billing Procedure[1] | Adjusted No. of Accounts | % of Adjusted Accounts |
| Residential (Auto Collection) | 9,443 | 0.75 | 7,082 | 69.2% |
| Bin Service (Scheduled) | 2,992 | 1.00 | 2,992 | 29.2% |
| Drop Box (Pickups @ 8 tons/ea.) | 159 | 1.00 | 159 | 1.6% |
| **Total** | 12,594 | -- | 10,233 | 100.0% |

*1. Residential is on the tax roll vs. direct billed; this represents a lower cost for G&A type services, and that difference is reflected in the adjustment shown here.*

**Appendix Table B-5**

| **Allocation Factors for G&A Costs -** *Total System Costs by Class* | | |
|---|---|---|
| Customer Class | Total of All Other Costs (Non-G&A) | % of All Other Non-G&A Costs |
| Residential | $2,932,654 | 29% |
| Bin Service | $5,542,055 | 55% |
| Drop Box | $1,690,988 | 17% |
| **Total** | $10,165,697 | 100% |

*1. Reflects the difference in billing costs (residential is on tax roll, not direct bill).*

**Appendix Table B-6**

| *Table COSA-3* **Composite Allocation Factors for G&A Costs - %'s of Accounts and Non-G&A System Costs** | | | |
|---|---|---|---|
| Customer Class | % of Adjusted Accounts | % of All Other Non-G&A Costs | Composite % Allocations[1] |
| Residential | 69% | 29% | **49%** |
| Bin Service | 29% | 55% | **42%** |
| Drop Box | 2% | 17% | **9%** |
| **Total** | 100% | 100% | **100%** |

*1. Assumes % of Accounts and % of Non-G&A Costs are equally weighted.*

**Appendix Table B-7**

| **Summary of Recycled Materials Revenues** *(Used to Allocate Recycled Materials Revenues in the Functionalization & Classification Analysis)* | | | | | |
|---|---|---|---|---|---|
| Material Type | | Customer Class[1] | | | |
| | | Residential | Commercial | Drop Box | Total |
| 6 | Mixed Recycle CC | $0 | $0 | $0 | $0 |
| 11 | Commingle Recycling | $64,983 | $33,652 | $14,772 | $113,407 |
| 12 | Cardboard | $0 | $14,059 | $78,897 | $92,955 |
| 16 | Metal Mixed | $0 | $0 | $806 | $806 |
| Total Recycled Materials Rev. | | $64,983 | $47,710 | $94,474 | $207,168 |
| | *%* | *31%* | *23%* | *46%* | *100.0%* |

*1. Preliminary estimates based on initial tonnage reports.*

## Appendix Table B-8

**Table COSA-1**

**Functionalization & Classification of Budget Costs to Customer Classes and Programs**

| Classification of Expenses | | Allocated Costs | | | | | | | | | Basis of Allocations | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Budget Categories | | Total Revenue Requirements FY 2015/16 | General & Admin. (G&A) | Residential Collection (RCOL) | Commercial Collection (CCOL) | Transfer Station (TS) | Disposal (DISP) | Roll-Off (RO) | Residential Recycling (RRECY) | Commercial Recycling (CRECY) | General & Admin. (G&A) | Residential Collection (RCOL) | Commercial Collection (CCOL) | Transfer Station (TS) | Disposal (DISP) | Roll-Off (RO) | Residential Recycling (RRECY) | Commercial Recycling (CRECY) |
| **20260400 Refuse Disposal Fund - Refuse Collection** | | | | | | | | | | | | | | | | | | |
| **Personnel Services** | | | | | | | | | | | *(Personnel costs were allocated based on detailed staffing cost analysis)* | | | | | | | |
| 411100 | Regular Salaries | $ 1,940,920 | $288,110 | $354,877 | $781,781 | $6,117 | $0 | $165,159 | $104,448 | $240,428 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 411310 | Overtime – Regular | $ 125,599 | $18,644 | $22,964 | $50,590 | $396 | $0 | $10,688 | $6,759 | $15,558 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 411700 | Contract Labor | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 431000 | Deferred Compensation | $ 34,973 | $5,191 | $6,394 | $14,087 | $110 | $0 | $2,976 | $1,882 | $4,332 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 432000 | Social Security | $ 141,971 | $21,074 | $25,958 | $57,185 | $447 | $0 | $12,081 | $7,640 | $17,586 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 433000 | Retirement – Employer | $ 351,050 | $52,110 | $64,186 | $141,399 | $1,106 | $0 | $29,872 | $18,891 | $43,486 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 433500 | Retirement – Employee | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 434000 | Workers Compensation | $ 191,298 | $28,396 | $34,977 | $77,053 | $603 | $0 | $16,278 | $10,294 | $23,697 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 435000 | Group Insurance | $ 480,943 | $71,391 | $87,935 | $193,719 | $1,516 | $0 | $40,925 | $25,881 | $59,576 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 435400 | Retiree Health Savings | $ 21,613 | $3,208 | $3,952 | $8,706 | $68 | $0 | $1,839 | $1,163 | $2,677 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 435500 | Retiree Insurance | $ 181,991 | $27,015 | $33,275 | $73,304 | $574 | $0 | $15,486 | $9,794 | $22,544 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 435600 | Retiree Medical Prefunding | $ 184,080 | $27,325 | $33,657 | $74,145 | $580 | $0 | $15,664 | $9,906 | $22,803 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 436000 | State Disability Insurance | $ 7,793 | $1,157 | $1,425 | $3,139 | $25 | $0 | $663 | $419 | $965 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 437000 | Mgt Health Ben | $ 520 | $77 | $95 | $209 | $2 | $0 | $44 | $28 | $64 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 437500 | Longevity Pay | $ 2,496 | $371 | $456 | $1,005 | $8 | $0 | $212 | $134 | $309 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 438500 | Cell Phone Allowance | $ 2,028 | $301 | $371 | $817 | $6 | $0 | $173 | $109 | $251 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 440000 | Uniform Allowance | $ 19,240 | $2,856 | $3,518 | $7,750 | $61 | $0 | $1,637 | $1,035 | $2,383 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| **Subtotal: Personnel Services** | | **$ 3,686,514** | **$ 547,226** | **$ 674,041** | **$ 1,484,888** | **$ 11,618** | **$ -** | **$ 313,696** | **$ 198,384** | **$ 456,661** | **15%** | **18%** | **40%** | **0%** | **0%** | **9%** | **5%** | **12%** |
| **Maintenance & Operations** | | | | | | | | | | | | | | | | | | |
| 512100 | Office Expense | $ 2,060 | $ 306 | $ 377 | $ 830 | $ 6 | $ - | $ 175 | $ 111 | $ 255 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 512400 | Communications | $ 11,907 | $ 1,767 | $ 2,177 | $ 4,796 | $ 38 | $ - | $ 1,013 | $ 641 | $ 1,475 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 513000 | Utilities | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 514100 | Departmental Special Supplie | $ 41,200 | $ 6,116 | $ 7,533 | $ 16,595 | $ 130 | $ - | $ 3,506 | $ 2,217 | $ 5,104 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 516100 | Training & Education | $ 2,060 | $ 306 | $ 377 | $ 830 | $ 6 | $ - | $ 175 | $ 111 | $ 255 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 516500 | Conferences & Conventions | $ 3,090 | $ 459 | $ 565 | $ 1,245 | $ 10 | $ - | $ 263 | $ 166 | $ 383 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 516600 | Special Events & Meetings | $ 1,030 | $ 153 | $ 188 | $ 415 | $ 3 | $ - | $ 88 | $ 55 | $ 128 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 516700 | Memberships & Dues | $ 824 | $ 122 | $ 151 | $ 332 | $ 3 | $ - | $ 70 | $ 44 | $ 102 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 517500 | Contributions to Agencies | $ 19,426 | $ 2,884 | $ 3,552 | $ 7,825 | $ 61 | $ - | $ 1,653 | $ 1,045 | $ 2,406 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 600200 | R&M – Equipment | $ 30,900 | $ 4,587 | $ 5,650 | $ 12,446 | $ 97 | $ - | $ 2,629 | $ 1,663 | $ 3,828 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 600800 | Equip Maint Expenses | $ 1,390,294 | $ 206,375 | $ 254,201 | $ 559,995 | $ 4,382 | $ - | $ 118,304 | $ 74,816 | $ 172,220 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 605400 | Amortization of Equipment | $ 447,663 | $ 66,451 | $ 81,850 | $ 180,314 | $ 1,411 | $ - | $ 38,093 | $ 24,090 | $ 55,453 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 614100 | Medical Services | $ 1,030 | $ 153 | $ 188 | $ 415 | $ 3 | $ - | $ 88 | $ 55 | $ 128 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 619800 | Other Contractual Services | $ 434,660 | $ - | $ 358,333 | $ 29,333 | $ - | $ - | $ 46,993 | $ - | $ - | 0% | 82% | 7% | 0% | 0% | 11% | 0% | 0% |
| 650200 | Insurance Premiums – Other | $ 37,693 | $ 5,595 | $ 6,892 | $ 15,182 | $ 119 | $ - | $ 3,207 | $ 2,028 | $ 4,669 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 650300 | Liability Reserve Charge | $ 86,049 | $ 12,773 | $ 15,733 | $ 34,660 | $ 271 | $ - | $ 7,322 | $ 4,631 | $ 10,659 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 670100 | Administrative Charges | $ 1,644,595 | $ 244,124 | $ 300,697 | $ 662,425 | $ 5,183 | $ - | $ 139,943 | $ 88,501 | $ 203,721 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 690200 | R&M Equipment Contra | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 690800 | Equip Maint Exp/Improve – Co | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| **Subtotal: Maintenance & Operations** | | **$ 4,154,480** | **$ 552,170** | **$ 1,038,464** | **$ 1,527,637** | **$ 11,723** | **$ -** | **$ 363,524** | **$ 200,176** | **$ 460,786** | **13%** | **25%** | **37%** | **0%** | **0%** | **9%** | **5%** | **11%** |
| **Capital Outlay** | | | | | | | | | | | | | | | | | | |
| 732120 | Departmental Special Equipm | $ 103,000 | $ 15,289 | $ 18,832 | $ 41,487 | $ 325 | $ - | $ 8,765 | $ 5,543 | $ 12,759 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| 793230 | Departmental Special Equipm | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| **Subtotal: Capital Outlay** | | **$ 103,000** | **$ 15,289** | **$ 18,832** | **$ 41,487** | **$ 325** | **$ -** | **$ 8,765** | **$ 5,543** | **$ 12,759** | **15%** | **18%** | **40%** | **0%** | **0%** | **9%** | **5%** | **12%** |
| **TOTAL: REFUSE COLLECTION OPER** | | **$ 7,943,994** | **$ 1,114,685** | **$ 1,731,337** | **$ 3,054,012** | **$ 23,666** | **$ -** | **$ 685,985** | **$ 404,103** | **$ 930,206** | **14%** | **22%** | **38%** | **0%** | **0%** | **9%** | **5%** | **12%** |

## Appendix Table B-9

| Classification of Expenses | | Allocated Costs | | | | | | | | | Basis of Allocations | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Budget Categories | | Total Revenue Requirements FY 2015/16 | General & Admin. (G&A) | Residential Collection (RCOL) | Commercial Collection (CCOL) | Transfer Station (TS) | Disposal (DISP) | Roll-Off (RO) | Residential Recycling (RRECY) | Commercial Recycling (CRECY) | General & Admin. (G&A) | Residential Collection (RCOL) | Commercial Collection (CCOL) | Transfer Station (TS) | Disposal (DISP) | Roll-Off (RO) | Residential Recycling (RRECY) | Commercial Recycling (CRECY) |
| **20260410 Refuse Disposal Fund - Transfer Station** | | | | | | | | | | | | | | | | | | |
| **Personnel Services** | | | | | | | | | | | *(Personnel costs were allocated based on detailed staffing cost analysis)* | | | | | | | |
| 411100 | Regular Salaries | $ 445,130 | $0 | $15,777 | $22,087 | $361,739 | $0 | $26,285 | $10,959 | $8,283 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 411310 | Overtime – Regular | $ 38,189 | $0 | $1,354 | $1,895 | $31,034 | $0 | $2,255 | $940 | $711 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 431000 | Deferred Compensation | $ 3,245 | $0 | $115 | $161 | $2,637 | $0 | $192 | $80 | $60 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 432000 | Social Security | $ 33,196 | $0 | $1,177 | $1,647 | $26,977 | $0 | $1,960 | $817 | $618 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 433000 | Retirement – Employer | $ 80,742 | $0 | $2,862 | $4,006 | $65,616 | $0 | $4,768 | $1,988 | $1,502 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 433500 | Retirement – Employee | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 434000 | Workers Compensation | $ 39,310 | $0 | $1,393 | $1,951 | $31,946 | $0 | $2,321 | $968 | $731 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 435000 | Group Insurance | $ 106,408 | $0 | $3,771 | $5,280 | $86,473 | $0 | $6,283 | $2,620 | $1,980 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 435400 | Retiree Health Savings | $ 5,408 | $0 | $192 | $268 | $4,395 | $0 | $319 | $133 | $101 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 435500 | Retiree Insurance | $ 21,658 | $0 | $768 | $1,075 | $17,601 | $0 | $1,279 | $533 | $403 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 435600 | Retiree Medical Prefunding | $ 39,520 | $0 | $1,401 | $1,961 | $32,116 | $0 | $2,334 | $973 | $735 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 436000 | State Disability Insurance | $ 2,042 | $0 | $72 | $101 | $1,659 | $0 | $121 | $50 | $38 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 438500 | Cell Phone Allowance | $ 676 | $0 | $24 | $34 | $549 | $0 | $40 | $17 | $13 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 440000 | Uniform Allowance | $ 5,928 | $0 | $210 | $294 | $4,817 | $0 | $350 | $146 | $110 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| **Subtotal: Personnel Services** | | **$ 821,451** | **$ -** | **$ 29,115** | **$ 40,761** | **$ 667,559** | **$ -** | **$ 48,507** | **$ 20,224** | **$ 15,285** | **0%** | **4%** | **5%** | **81%** | **0%** | **6%** | **2%** | **2%** |
| **Maintenance & Operations** | | | | | | | | | | | | | | | | | | |
| 512400 | Communications | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 513000 | Utilities | $ 26,250 | $0 | $930 | $1,303 | $21,332 | $0 | $1,550 | $646 | $488 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 514100 | Departmental Special Supplie | $ 15,450 | $0 | $548 | $767 | $12,556 | $0 | $912 | $380 | $287 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 516500 | Conferences & Conventions | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 516700 | Memberships & Dues | $ 206 | $0 | $7 | $10 | $167 | $0 | $12 | $5 | $4 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 600100 | R&M – Building | $ 10,300 | $0 | $365 | $511 | $8,370 | $0 | $608 | $254 | $192 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 600200 | R&M – Equipment | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 600800 | Equip Maint Expenses | $ 100,580 | $0 | $3,565 | $4,991 | $81,737 | $0 | $5,939 | $2,476 | $1,872 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 605200 | Rental of Land | $ 80,340 | $0 | $2,847 | $3,986 | $65,289 | $0 | $4,744 | $1,978 | $1,495 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 605400 | Amortization of Equipment | $ 56,913 | $0 | $2,017 | $2,824 | $46,251 | $0 | $3,361 | $1,401 | $1,059 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 615100 | Refuse Disp Services – Trasl | $ 2,060,000 | $0 | $0 | $0 | $0 | $2,060,000 | $0 | $0 | $0 | 0% | 0% | 0% | 0% | **100%** | 0% | 0% | 0% |
| 619800 | Other Contractual Services | $ 499,550 | $0 | $0 | $0 | $0 | $499,550 | $0 | $0 | $0 | 0% | 0% | 0% | 0% | **100%** | 0% | 0% | 0% |
| 650300 | Liability Reserve Charge | $ 17,683 | $0 | $627 | $877 | $14,370 | $0 | $1,044 | $435 | $329 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 665100 | Depreciation (4) | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 670100 | Administrative Charges | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| 699800 | Other Contractual Services – | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| **Subtotal: Maintenance & Operations** | | **$ 2,867,271** | **$ -** | **$ 10,907** | **$ 15,269** | **$ 250,072** | **$ 2,559,550** | **$ 18,171** | **$ 7,576** | **$ 5,726** | **0%** | **0%** | **1%** | **9%** | **89%** | **1%** | **0%** | **0%** |
| **Capital Outlay** | | | | | | | | | | | | | | | | | | |
| 710100 | Land Acquisition Costs | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% |
| 791010 | Land | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% |
| 793252 | IT Equipment – Server/Softwa | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% |
| **Subtotal: Capital Outlay** | | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **0%** | **0%** | **0%** | **0%** | **0%** | **0%** | **0%** | **0%** |
| **Debt Services** | | | | | | | | | | | | | | | | | | |
| 810100 | Bond Principal Payments | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% |
| 810400 | Loan Principal Payments | $ 124,832 | $0 | $0 | $0 | $124,832 | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% |
| 820400 | Loan Interest Payments | $ 38,798 | $0 | $0 | $0 | $38,798 | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% |
| **Subtotal: Debt Services** | | **$ 163,630** | **$ -** | **$ -** | **$ -** | **$ 163,630** | **$ -** | **$ -** | **$ -** | **$ -** | **0%** | **0%** | **0%** | **100%** | **0%** | **0%** | **0%** | **0%** |
| **TOTAL: TRANSFER STATION OPERA** | | **$ 3,852,352** | **$ -** | **$ 40,021** | **$ 56,030** | **$ 1,081,261** | **$ 2,559,550** | **$ 66,678** | **$ 27,801** | **$ 21,011** | **0%** | **1%** | **1%** | **28%** | **66%** | **2%** | **1%** | **1%** |

## Appendix Table B-10

| Classification of Expenses | | Allocated Costs | | | | | | | | | Basis of Allocations | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Budget Categories | | Total Revenue Requirements FY 2015/16 | General & Admin. (G&A) | Residential Collection (RCOL) | Commercial Collection (CCOL) | Transfer Station (TS) | Disposal (DISP) | Roll-Off (RO) | Residential Recycling (RRECY) | Commercial Recycling (CRECY) | General & Admin. (G&A) | Residential Collection (RCOL) | Commercial Collection (CCOL) | Transfer Station (TS) | Disposal (DISP) | Roll-Off (RO) | Residential Recycling (RRECY) | Commercial Recycling (CRECY) |
| **20260430 Refuse Disposal Fund - Recycling** | | | | | | | | | | | | | | | | | | |
| **Personnel Services** | | | | | | | | | | | *(Personnel costs were allocated based on detailed staffing cost analysis)* | | | | | | | |
| 411100 | Regular Salaries | $ 128,409 | $128,409 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 411200 | Part Time Salaries | $ 11,073 | $11,073 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 431000 | Deferred Compensation | $ 4,326 | $4,326 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 432000 | Social Security | $ 8,530 | $8,530 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 433000 | Retirement – Employer | $ 19,225 | $19,225 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 433500 | Retirement – Employee | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 434000 | Workers Compensation | $ 10,773 | $10,773 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 435000 | Group Insurance | $ 8,455 | $8,455 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 435400 | Retiree Health Savings | $ 676 | $676 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 435500 | Retiree Insurance | $ 3,584 | $3,584 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 435600 | Retiree Medical Prefunding | $ 10,400 | $10,400 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 436000 | State Disability Insurance | $ 16 | $16 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 437000 | Mgt Health Ben | $ 520 | $520 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| **Subtotal: Personnel Services** | | **$ 205,988** | **$ 205,988** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **100%** | **0%** | **0%** | **0%** | **0%** | **0%** | **0%** | **0%** |
| **Maintenance & Operations** | | | | | | | | | | | | | | | | | | |
| 512100 | Office Expense | $ 515 | $515 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 512200 | Printing & Binding | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 514100 | Departmental Special Supplies | $ 5,150 | $5,150 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 516100 | Training & Education | $ 1,030 | $1,030 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 516500 | Conferences & Conventions | $ 1,030 | $1,030 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 516600 | Special Events & Meetings | $ 1,030 | $1,030 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 516700 | Memberships & Dues | $ 515 | $515 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 517300 | Advertising and Public Relations | $ 5,150 | $5,150 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 610400 | Consulting Services | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 650300 | Liability Reserve Charge | $ 4,846 | $4,846 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 670100 | Administrative Charges | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| **Subtotal: Maintenance & Operations** | | **$ 19,266** | **$ 19,266** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **100%** | **0%** | **0%** | **0%** | **0%** | **0%** | **0%** | **0%** |
| **Capital Outlay** | | | | | | | | | | | | | | | | | | |
| 732120 | Departmental Special Equipment | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| **Subtotal: Capital Outlay** | | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **0%** | **0%** | **0%** | **0%** | **0%** | **0%** | **0%** | **0%** |
| **TOTAL: RECYCLING OPERATING EXI** | | **$ 225,254** | **$ 225,254** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **$ -** | **100%** | **0%** | **0%** | **0%** | **0%** | **0%** | **0%** | **0%** |
| **GRAND TOTAL: REFUSE DISPOSAL I** | | **$ 12,021,601** | **$ 1,339,939** | **$ 1,771,358** | **$ 3,110,042** | **$ 1,104,928** | **$ 2,559,550** | **$ 752,663** | **$ 431,904** | **$ 951,217** | **11%** | **15%** | **26%** | **9%** | **21%** | **6%** | **4%** | **8%** |

## Appendix Table B-11

| Classification of Expenses, continued | Allocated Costs | | | | | | | | | Basis of Allocations | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Budget Categories | Total Revenue Requirements FY 2015/16 | General & Admin. (G&A) | Residential Collection (RCOL) | Commercial Collection (CCOL) | Transfer Station (TS) | Disposal (DISP) | Roll-Off (RO) | Residential Recycling (RRECY) | Commercial Recycling (CRECY) | General & Admin. (G&A) | Residential Collection (RCOL) | Commercial Collection (CCOL) | Transfer Station (TS) | Disposal (DISP) | Roll-Off (RO) | Residential Recycling (RRECY) | Commercial Recycling (CRECY) |
| **Debt Service Payments** | | | | | | | | | | | | | | | | | |
| Outstanding Debt | $ 163,629 | $0 | $32,726 | $32,726 | $32,726 | $16,363 | $16,363 | $16,363 | $16,363 | 0% | 20% | 20% | 20% | 10% | 10% | 10% | 10% |
| New Debt Issue - SRF Loan | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% |
| New Debt Issue - Revenue Bond | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% |
| **Total Debt Service Payments** | **$ 163,629** | **$ -** | **$ 32,726** | **$ 32,726** | **$ 32,726** | **$ 16,363** | **$ 16,363** | **$ 16,363** | **$ 16,363** | **0.0%** | **20.0%** | **20.0%** | **20.0%** | **10.0%** | **10.0%** | **10.0%** | **10.0%** |
| **Capital Expenditures** | | | | | | | | | | | | | | | | | |
| Rate Funded Capital Expenses | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% |
| **TOTAL REVENUE REQUIREMENTS** | **$ 12,185,230** | **$ 1,339,939** | **$ 1,804,084** | **$ 3,142,767** | **$ 1,137,653** | **$ 2,575,913** | **$ 769,026** | **$ 448,266** | **$ 967,580** | **11.0%** | **14.8%** | **25.8%** | **9.3%** | **21.1%** | **6.3%** | **3.7%** | **7.9%** |
| ***Less: Non-Rate Revenues*** | | | | | | | | | | | | | | | | | |
| 333500 Recycling Plan Permit Fee | $ (7,000) | $0 | $0 | $0 | $0 | $0 | $0 | $0 | ($7,000) | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% |
| 339140 CNG Excise Tax Credit | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 60% | 0% | 5% | 5% | 15% | 0% | 15% |
| 343500 Dept/Conservation-Recycling (2) | $ (10,000) | $0 | $0 | $0 | $0 | $0 | $0 | ($4,000) | ($6,000) | 0% | 0% | 0% | 0% | 0% | 0% | 40% | 60% |
| 343530 Beverage Container Recycling | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 100% |
| 352600 Interest & Penalties | $ (351,049) | ($38,603) | ($51,975) | ($90,541) | ($32,775) | ($74,210) | ($22,155) | ($12,914) | ($27,875) | 11% | 15% | 26% | 9% | 21% | 6% | 4% | 8% |
| 352700 Special Services | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% |
| 352900 Sale of Recycle Items | $ (207,168) | $0 | ($64,983) | ($47,710) | $0 | $0 | ($94,474) | $0 | $0 | 0% | 31% | 23% | 0% | 0% | 46% | 0% | 0% |
| 352900 LA City Fees for TS Use | $ (300,000) | $0 | $0 | $0 | ($300,000) | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% |
| 382000 Interest Income | $ (34,000) | ($3,739) | ($5,034) | ($8,769) | ($3,174) | ($7,187) | ($2,146) | ($1,251) | ($2,700) | 11% | 15% | 26% | 9% | 21% | 6% | 4% | 8% |
| 382010 Net Incr/Decr Fair Val Inve | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 11% | 15% | 26% | 9% | 21% | 6% | 4% | 8% |
| 386100 Miscellaneous Revenue | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 11% | 15% | 26% | 9% | 21% | 6% | 4% | 8% |
| 386100 Miscellaneous Revenue | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 11% | 15% | 26% | 9% | 21% | 6% | 4% | 8% |
| 386100 Miscellaneous Revenue | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 11% | 15% | 26% | 9% | 21% | 6% | 4% | 8% |
| 386300 Sale of Property | $ - | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 11% | 15% | 26% | 9% | 21% | 6% | 4% | 8% |
| **Total Non-Rate Revenues** | **$ (909,217)** | **$ (42,342)** | **$ (121,992)** | **$ (147,021)** | **$ (335,949)** | **$ (81,398)** | **$ (118,775)** | **$ (18,165)** | **$ (43,575)** | | | | | | | | |
| **NET REVENUE REQUIREMENTS** | **$ 11,276,013** | **$ 1,297,597** | **$ 1,682,092** | **$ 2,995,747** | **$ 801,704** | **$ 2,494,515** | **$ 650,251** | **$ 430,101** | **$ 924,005** | | | | | | | | |
| ***Allocation of Revenue Requirements*** | **100.0%** | **11.5%** | **14.9%** | **26.6%** | **7.1%** | **22.1%** | **5.8%** | **3.8%** | **8.2%** | | | | | | | | |
| *Revenue Reqt. Check from Financial Plan* | *$ 11,276,013* | | | | | | | | | | | | | | | | |

| Classification of Expenses, continued<br>Adjustments to Classification of Expenses<br>Adjustment for Current Rate Level: | Total | (G&A) | (RCOL) | (CCOL) | (TS) | (DISP) | (RO) | (RRECY) | (CRECY) | |
|---|---|---|---|---|---|---|---|---|---|---|
| FY 2015/16 Target Rate Rev. After Rate | *$11,487,649* | | | | | | | | | |
| Projected Rate Revenue at Current Rat | *$11,153,057* | | | | | | | | | |
| FY 2015/16 Projected Rate Increase | *3.0%* | | | | | | | | | |
| **Adjusted Net Revenue Req'ts** | **$ 11,487,649** | **$ 1,321,952** | **$ 1,713,663** | **$ 3,051,973** | **$ 816,751** | **$ 2,541,334** | **$ 662,455** | **$ 438,174** | **$ 941,347** | *$ 11,487,649* |
| *Percent of Revenue* | | *11.5%* | *14.9%* | *26.6%* | *7.1%* | *22.1%* | *5.8%* | *3.8%* | *8.2%* | *100.0%* |

## Appendix Table B-12

| Staffing Costs by Division | Allocated Personnel (Costs) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | General & Admin. (G&A) | Resid. Collection (RCOL) | Comm. Collection (CCOL) | Transfer Station (TS) | Disposal (DISP) | Roll-Off (RO) | Resid. Recycling (RRECY) | Comm. Recycling (CRECY) | Total |
| Refuse Collection | $547,226 | $674,041 | $1,484,888 | $11,618 | $0 | $313,696 | $198,384 | $456,661 | $3,686,514 |
| Transfer Station | $0 | $29,115 | $40,761 | $667,559 | $0 | $48,507 | $20,224 | $15,285 | $821,451 |
| Recycling | $205,988 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | $205,988 |
| **Total Personnel Costs** | **$753,214** | **$703,155** | **$1,525,648** | **$679,178** | **$0** | **$362,204** | **$218,608** | **$471,946** | **$4,713,953** |

## Appendix Table B-13

| Staffing Costs - Regular Positions *(1)* | | FY 2014/15 Positions | % of FTE Total | Total Costs *(based on FTE's)* | Allocated Personnel (Costs) | | | | | | | | Allocated Personnel Costs (Percentages) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | General & Admin. (G&A) | Resid. Collection (RCOL) | Comm. Collection (CCOL) | Transfer Station (TS) | Disposal (DISP) | Roll-Off (RO) | Resid. Recycling (RRECY) | Comm. Recycling (CRECY) | General & Admin. (G&A) | Resid. Collection (RCOL) | Comm. Collection (CCOL) | Transfer Station (TS) | Disposal (DISP) | Roll-Off (RO) | Resid. Recyclin (RRECY) | Comm. Recyclin (CRECY) |
| **Refuse Collection - 6040** | | | | | | | | | | | | | | | | | | | | |
| 60400 | Administrative clerk/RPT | 0.98 | *3%* | $113,860 | $113,860 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 60400 | Associate Analyst | 1.00 | *3%* | $116,184 | $116,184 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 60400 | Clerk/Typist/RPT | 0.98 | *3%* | $113,860 | $113,860 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 60400 | Environmental Prog. & Ops. Mgr | 0.60 | *2%* | $69,710 | $69,710 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 60400 | Management Analyst | 0.15 | *0%* | $17,428 | $17,428 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 60400 | Roll-off Driver | 2.00 | *6%* | $232,368 | $0 | $0 | $0 | $0 | $0 | $232,368 | $0 | $0 | 0% | 0% | 0% | 0% | 0% | 100% | 0% | 0% |
| 60400 | Sanitation Crew Supervisor | 1.00 | *3%* | $116,184 | $0 | $0 | $58,092 | $0 | $0 | $46,474 | $0 | $11,618 | 0% | 0% | 50% | 0% | 0% | 40% | 0% | 10% |
| 60400 | Sanitation Dispatcher | 1.00 | *3%* | $116,184 | $0 | $11,618 | $34,855 | $11,618 | $0 | $34,855 | $5,809 | $17,428 | 0% | 10% | 30% | 10% | 0% | 30% | 5% | 15% |
| 60400 | Sanitation Driver (2) | 10.00 | *32%* | $1,161,839 | $0 | $487,972 | $325,315 | $0 | $0 | $0 | $174,276 | $174,276 | 0% | 42.0% | 28.0% | 0% | 0% | 0% | 15% | 15.0% |
| 60400 | Sanitation Driver/RPT | 2.94 | *9%* | $341,581 | $0 | $34,158 | $153,711 | $0 | $0 | $0 | $0 | $153,711 | 0% | 10.0% | 45.0% | 0% | 0% | 0% | 0% | 45.0% |
| 60400 | Scout Vehicle Operator | 7.00 | *22%* | $813,287 | $0 | $121,993 | $609,965 | $0 | $0 | $0 | $0 | $81,329 | 0% | 15% | 75% | 0% | 0% | 0% | 0% | 10% |
| 60400 | Scout Vehicle Operator/RPT (3) | 2.45 | *8%* | $284,650 | $0 | $0 | $284,650 | $0 | $0 | $0 | $0 | $0 | 0% | 0% | 100% | 0% | 0% | 0% | 0% | 0% |
| 60400 | Solid Waste & Recycling Ops. Mgr | 1.00 | *3%* | $116,184 | $116,184 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 60400 | Warehouse Wrkr/Dlvry Drvr | 0.63 | *2%* | $73,196 | $0 | $18,299 | $18,299 | $0 | $0 | $0 | $18,299 | $18,299 | 0% | 25% | 25% | 0% | 0% | 0% | 25% | 25% |
| | **Refuse Collection Division Tota** | **31.73** | *100%* | **$3,686,514** | $547,226 | $674,041 | $1,484,888 | $11,618 | $0 | $313,696 | $198,384 | $456,661 | 15% | 18% | 40% | 0% | 0% | 9% | 5% | 12% |
| **Transfer Station** | | **Positions** | **% FTEs** | **Costs** | **(G&A)** | **(RCOL)** | **(CCOL)** | **(TS)** | **(DISP)** | **(RO)** | **(RRECY)** | **(CRECY)** | (G&A) | (RCOL) | (CCOL) | (TS) | (DISP) | (RO) | (RRECY) | (CRECY) |
| 60410 | Heavy Equipment Operator (2) | 2.00 | *25%* | $207,962 | $0 | $0 | $0 | $207,962 | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% |
| 60410 | Heavy Equipment Operator/RPT | 0.98 | *12%* | $101,902 | $0 | $0 | $0 | $101,902 | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% |
| 60410 | Laborer/RPT | 2.94 | *37%* | $305,705 | $0 | $0 | $0 | $305,705 | $0 | $0 | $0 | $0 | 0% | 0% | 0% | 100% | 0% | 0% | 0% | 0% |
| 60410 | Sanitation Crew Supervisor | 1.00 | *13%* | $103,981 | $0 | $29,115 | $0 | $51,991 | $0 | $5,199 | $17,677 | $0 | 0% | 28.0% | 0.0% | 50.0% | 0.0% | 5.0% | 17.0% | 0.0% |
| 60410 | Welder/RPT | 0.98 | *12%* | $101,902 | $0 | $0 | $40,761 | $0 | $0 | $43,308 | $2,548 | $15,285 | 0% | 0% | 40% | 0% | 0% | 42.5% | 2.5% | 15% |
| | **Transfer Station Division Total** | **7.90** | *100%* | **$821,451** | $0 | $29,115 | $40,761 | $667,559 | $0 | $48,507 | $20,224 | $15,285 | 0% | 4% | 5% | 81% | 0% | 6% | 2% | 2% |
| **Recycling** | | **Positions** | **% FTEs** | **Costs** | **(G&A)** | **(RCOL)** | **(CCOL)** | **(TS)** | **(DISP)** | **(RO)** | **(RRECY)** | **(CRECY)** | (G&A) | (RCOL) | (CCOL) | (TS) | (DISP) | (RO) | (RRECY) | (CRECY) |
| 60430 | Environmental Coordinator | 1.00 | *59%* | $122,415 | $122,415 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 60430 | Administrative Intern (hours)(4) | 0.43 | *26%* | $52,968 | $52,968 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| 60430 | Sr. Management Analyst | 0.25 | *15%* | $30,604 | $30,604 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| | **Recycling Division Total** | **1.68** | *100%* | **$205,988** | $205,988 | $0 | $0 | $0 | $0 | $0 | $0 | $0 | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| | **Total Position** | **41.31** | | **$4,713,953** | **$753,214** | **$703,155** | **$1,525,648** | **$679,178** | **$0** | **$362,204** | **$218,608** | **$471,946** | **16%** | **15%** | **32%** | **14%** | **0%** | **8%** | **5%** | **10%** |

(1) Positions by Division sourced from the City of Culver City's Adopted FY 2014/15 Budget, beginning page 392.
(2) Reclass one (1) Sanitation Driver (20260400) to Heavy Equipment Operator (20260410).
(3) Add (0.49) Scout Vehicle Operator/RPT. Remainder of (0.49) position to be funded by Transit.
(4) Converted from 900 part-time hours.

## APPENDIX C – Rate Design Analysis Tables

### Appendix Table C-1

| Summary of Current Residential Refuse Service Charges<br>*Calendar Year 2014* | | | | | | | |
|---|---|---|---|---|---|---|---|
| Type of Service | Code | Unit Price | | Type of Service | Units | Basis for Charge | Annual Revenue |
| ***Residential Service*** | | | | | | | |
| *Resid.* | | **$29.30** | /mo. | Residential Automated Collection | 113,316 | Units | $3,320,159 |
| *Resid.* | 10000 | **$29.30** | /mo. | Can Service - Residential | 544 | Units | $15,939 |
| *Comm.* | 10004 | **$26.64** | /mo. | Can Service - Commercial | 296 | Units | $7,879 |
| Subtotal Residential | | | | | 114,156 | | $3,343,977 |
| *Resid.* | 10005 | **$5.00** | /mo. | Extra Auto Can - Refuse | 275 | Units | $1,375 |
| Total Residential | | | | | 114,431 | | $3,345,352 |

### Appendix Table C-2

| Calculation of New Residential Refuse Service - Monthly Charges | | | | | | |
|---|---|---|---|---|---|---|
| Residential Service | Units *(no. of Monthly charges)* | Allocated Costs *(from Cost-of-Service Analysis)* | | | | |
| | | Collection Costs | TS Costs | Disposal Costs | G&A Costs | Total |
| *Allocated Costs* | | *$2,151,837* | *$190,669* | *$590,907* | *$648,187* | *$3,581,601* |
| Resid. Automated Collection[1] | 113,316 | $2,132,465 | $189,267 | $586,561 | $643,419 | $3,551,712 |
| Can Service - Residential | 544 | $10,237 | $909 | $2,816 | $3,089 | $17,051 |
| Can Service - Commercial [2] | 266 | $5,009 | $494 | $1,531 | $1,679 | $8,713 |
| *Add'l Automated Collection - Can [3]* | *275* | *$4,125* | *$0* | *$0* | *$0* | *$4,125* |
| Total | 114,126 | $2,151,837 | $190,669 | $590,907 | $648,187 | $3,581,601 |
| **Residential Rate ($/mo.)** | | | | | | **$31.38** |
| **Commercial Can Service** | | | | | | **$28.24** |
| *Extra Auto Can - Refuse [3]* | | | | | | *$15.00* |

*1. Includes refuse, yardwaste and recyclables collection.*

*2. Only refuse collection. Since no recycling/yardwaste subsidies are applied to commercial service, the current rate differential of 90% of the residential service is applied, which NBS believes is a reasonable estimate.*

*3. Second can for refuse collection at existing customer site. Does not include yardwaste or recycling service.*

## Appendix Table C-3

| Calculation of Commercial (Bin) Refuse Service - Scheduled Monthly & *One-Time* Rates | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Level-of-Service | **Number of Units** *(No. of Lifts)* | | | | **Allocated Costs** *(from Cost-of-Service Analysis)* | | | | | | **Calculated New Refuse Rates** *($/mo. or call)* | **Current Refuse Rates** *($/mo. or call)* | |
| | Number | Actual Lifts | Volume (CY) | *% Adjusted Volume*[1] | **Collection Costs** | **G&A Costs** | **TS Costs** | **Disposal Costs**[2] | **Recycling Costs** | **Total** | | | |
| | | | | *Allocated Costs* | ***$3,051,973*** | ***$553,552*** | ***$376,084*** | ***$1,172,053*** | ***$941,347*** | ***$6,095,009*** | | | |
| | | | | *Allocation Basis* | *Actual Lifts* | | *Volume of Lifts* | | | | | | % Change |
| Scheduled Commercial (Bin) Service | | | | | | | | | | | | | |
| 2-CY Sched Refuse (1x/week) | 4,771 | 20,674 | 41,349 | *8.83%* | $307,253 | $58,153 | $27,919 | $99,059 | $69,882 | $562,266 | **$117.85** | *$113.90* | 3.5% |
| 3-CY Sched Refuse (1x/week) | 30,237 | 131,026 | 393,079 | *83.98%* | $2,035,897 | $385,330 | $277,493 | $984,570 | $694,570 | $4,377,861 | **$144.79** | *$139.92* | 3.5% |
| 3-CY Sched Refuse (300g) (1x/week) | 12 | 52 | 156 | *0.03%* | $808 | $153 | $110 | $391 | $276 | $1,737 | **$144.79** | *$139.92* | 3.5% |
| Unscheduled/One-time/On-Call Commercial (Bin) Service | | | | | | | | | | | | | |
| *2-CY Call/Extra Pickup - Refuse* | 271 | 271 | 542 | *0.12%* | $4,248 | $804 | $386 | $1,370 | $966 | $7,774 | **$28.69** | *$27.77* | 3.3% |
| *3-CY Call/Extra Pickup - Refuse* | 1,697 | 1,697 | 5,091 | *1.09%* | $33,970 | $6,429 | $4,630 | $16,428 | $11,589 | $73,048 | **$43.05** | *$41.67* | 3.3% |
| *2-CY Collection (On-Call Residential)* | 72 | 72 | 144 | *0.03%* | $1,129 | $214 | $103 | $364 | $257 | $2,065 | **$28.69** | *$27.77* | 3.3% |
| *3-CY Collection (On-Call Residential)* | 1,869 | 1,869 | 5,607 | *1.20%* | $37,413 | $7,081 | $5,099 | $18,093 | $12,764 | $80,451 | **$43.05** | *$41.67* | 3.3% |
| Yardwaste/Composting Commercial (Bin) Service | | | | | | | | | | | | | |
| 2-CY Sched. Yard Waste | 24 | 104 | 208 | *0.07%* | $820 | $155 | $75 | $426 | $187 | $1,662 | **$69.26** | *$43.29* | 60.0% |
| 3-CY Sched. Yard Waste | 882 | 3,821 | 11,464 | *3.94%* | $26,366 | $4,990 | $3,594 | $20,518 | $8,995 | $64,464 | **$73.10** | *$45.69* | 60.0% |
| *2-CY Call Yard Waste* | 2 | 2 | 4 | *0.00%* | $15 | $3 | $1 | $8 | $3 | $30 | **$15.02** | *$8.33* | 80.3% |
| *3-CY Call Organic/Yard Waste* | 197 | 197 | 591 | *0.14%* | $1,523 | $288 | $208 | $820 | $519 | $3,358 | **$17.05** | *$9.05* | 88.4% |
| Recycling Commercial (Bin) Service | | | | | | | | | | | | | |
| Can Service - Recyclables | 890 | 3,855 | 3,855 | *0.00%* | $35,909 | $6,796 | $1,631 | $0 | $4,084 | $48,421 | **$12.56** | *$12.56* | 0.0% |
| 2-CY Sched. & MFR Mixed Recycle | 696 | 3,018 | 6,036 | *0.00%* | $57,934 | $10,965 | $5,264 | $0 | $13,177 | $87,340 | **$28.94** | *$28.94* | 0.0% |
| 3-CY Sched Comm./MFR Recycle | 4,684 | 20,298 | 60,893 | *0.00%* | $373,501 | $70,692 | $50,908 | $0 | $127,424 | $622,525 | **$30.67** | *$30.67* | 0.0% |
| *2-CY Call Recycle* | 103 | 103 | 206 | *0.00%* | $452 | $85 | $41 | $0 | $103 | $681 | **$6.61** | *$6.61* | 0.0% |
| *3-CY Call Recycle* | 339 | 339 | 1,017 | *0.00%* | $1,458 | $276 | $199 | $0 | $498 | $2,431 | **$7.17** | *$7.17* | 0.0% |
| Waste-to-Energy Commercial (Bin) Service | | | | | | | | | | | | | |
| 3-CY Sched Waste-to-Energy | 204 | 884 | 2,652 | *0.57%* | $6,001 | $1,136 | -$1,577 | $30,007 | -$3,946 | $31,620 | **$155.00** | *$139.92* | 10.8% |
| Miscellaneous Services | | | | | | | | | | | | | |
| *Bin Rental - 2 & 3 CY Bins ($/mo.)* | 2,352 | *NA* | *NA* | *0.00%* | $112,896 | *N.A.* | *N.A.* | *N.A.* | *N.A.* | $112,896 | **$48.00** | *$46.31* | 3.6% |
| *Scheduled Miss Stop* | 396 | 396 | *NA* | *0.00%* | $0 | *N.A.* | *N.A.* | *N.A.* | *N.A.* | $0 | **$0** | *$0* | 0.0% |
| *2-CY Temp Del/Rem* | 22 | 22 | 44 | *0.00%* | $189 | *N.A.* | *N.A.* | *N.A.* | *N.A.* | $189 | **$8.58** | *$8.33* | 3.0% |
| *3-CY Temp Del/Rem* | 1,654 | 1,654 | 4,962 | *0.00%* | $14,191 | *N.A.* | *N.A.* | *N.A.* | *N.A.* | $14,191 | **$8.58** | *$8.33* | 3.0% |
| **Total Commercial Revenue/Year** | **46,950** | **188,282** | **532,893** | *100%* | **$3,051,973** | **$553,552** | **$376,084** | **$1,172,053** | **$941,347** | **$6,095,009** | *NA* | | |

*1. Adjusted volume to account for actual disposal cost ($/ton) and recycling materials credits. The disposal costs allocated to commercial customers are fully recovered.*

*2. Disposal costs are allocated based on the adjusted volume percentages.*

**Appendix Table C-4**

| Adjustments to Tonnage to Account for Different Commercial Disposal Costs | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Level-of-Service** | Volume (2014 CY) | 2014 Volume (CY) Adjusted to 2015 (2% Increase) | Disposal Facility Cost ($/ton) | | Recycled Materials Revenue ($/ton) | Adjusted Volume | |
| | | | | | | *Adjusted Volume* | *% of Total* |
| Scheduled Commercial (Bin) Service | | | | | | | |
| 2-CY Sched Refuse | 41,349 | 42,176 | $30.20 | Landfill | NA | 42,176 | 8.83% |
| 3-CY Sched Refuse *(1x/week)* | 393,079 | 400,940 | $30.20 | Landfill | NA | 400,940 | 83.98% |
| 3-CY Sched Refuse (300g) | 156 | 159 | $30.20 | Landfill | NA | 159 | 0.03% |
| Unscheduled/One-time/On-Call Commercial (Bin) Service | | | | | | | |
| *2-CY Call Refuse (On-Call Commercial)* | 542 | 553 | $30.20 | Landfill | NA | 553 | 0.12% |
| *3-CY Call Refuse* | 5,091 | 5,193 | $30.20 | Landfill | NA | 5,193 | 1.09% |
| *2-CY Collection (On-Call Residential)* | 144 | 147 | $30.20 | Landfill | NA | 147 | 0.03% |
| *3-CY Collection Trash (Residential)* | 5,607 | 5,719 | $30.20 | Landfill | NA | 5,719 | 1.20% |
| Yardwaste/Composting Commercial (Bin) Service | | | | | | | |
| 2-CY Sched. Yard Waste | 208 | 212 | $47.00 | Victorville Compost | NA | 341 | 0.07% |
| 3-CY Sched. Yard Waste | 11,460 | 11,690 | $47.00 | Victorville Compost | NA | 18,815 | 3.94% |
| *2-CY Call Yard Waste* | 4 | 4 | $47.00 | Victorville Compost | NA | 7 | 0.00% |
| *3-CY Call Yard Waste* | 409 | 417 | $47.00 | Victorville Compost | NA | 671 | 0.14% |
| Recycling Commercial (Bin) Service | | | | | | | |
| Can Service - Recyclables | 7,710 | 7,865 | NA | Mixed Recyclable (6) | $30.00 | 0 | 0.00% |
| 2-CY Sched. & MFR Mixed Recycle | 6,036 | 6,157 | NA | Mixed Recyclable (6) | $30.00 | 0 | 0.00% |
| 3-CY Sched Comm./MFR Recycle | 60,893 | 62,110 | NA | Mixed Recyclable (6) | $30.00 | 0 | 0.00% |
| *2-CY Call Recycle* | 206 | 210 | NA | Mixed Recyclable (6) | $30.00 | 0 | 0.00% |
| *3-CY Call Recycle* | 1,017 | 1,037 | NA | Mixed Recyclable (6) | $30.00 | 0 | 0.00% |
| Waste-to-Energy Commercial (Bin) Service | | | | | | | |
| 3-CY Sched Waste-to-Energy | 2,652 | 2,705 | $57.00 | WTE/Long Beach | NA | 2,705 | 0.57% |
| | **536,563** | **547,294** | | | | | 100.00% |

**Appendix Table C-5**

## Calculation of Drop Box Refuse Service - Scheduled Monthly & *One-Time* Rates

| Drop Box Service Type | Units-of-Service *(Empties or Tons)* | *% of Disposal Tons*[1] | *Adjusted Disposal Tonnages*[2] | Allocated Costs *(from Cost-of-Service Analysis)* G&A Costs | TS Costs | Disposal Costs[3] | Roll-Off/ Drop-Box Costs[4] | Total | Calculated New Drop Box Rates *($/empty)* | Current Drop Box Rates *($/empty)* | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Drop Box Collection Only (Empties)** | | | | | | | | | | | | |
| *Allocated Costs* | | | | *N.A.* | *N.A.* | *N.A.* | *$507,211* | *$507,211* | | | | *% change* |
| DB 8-CY Empty | 399 empties | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | $66,725 | $66,725 | **$167.23** | *$162.36* | */empty* | *3.0%* |
| DB 30-CY Empty | 7 empties | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | $1,171 | $1,171 | **$167.23** | *$162.36* | */empty* | *3.0%* |
| DB 40-CY Empty | 1,653 empties | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | $276,433 | $276,433 | **$167.23** | *$162.36* | */empty* | *3.0%* |
| DB 50-CY Empty | 43 empties | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | $7,191 | $7,191 | **$167.23** | *$162.36* | */empty* | *3.0%* |
| DB Compactor Empty | 931 empties | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | $155,692 | $155,692 | **$167.23** | *$162.36* | */empty* | *3.0%* |
| Total | 3,033 empties | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | $507,211 | $507,211 | | | | |
| **Drop Box Tonnage Only** | | | | | | | | | **New Drop Box Rates ($/ton)** | **Current Drop Box Tonnage Rates ($/ton)** | | |
| *Allocated Costs*[4] | | | | ***$197,845*** | ***$327,781*** | ***$933,618*** | ***N.A.*** | ***$1,459,245*** | | | | |
| *Allocation Basis* | | | | *% of Tonnage* | *% of Tonnage* | *Adj. % of Tons*[2] | *N.A.* | | | | | |
| Refuse/MSW | | | | | | | | | | | | |
| Tonnage Refuse Mixed | 10,917 tons | 64.81% | 52.76% | $139,949 | $231,862 | $537,697 | $0 | $909,508 | **$83.31** | *$80.87* | */ton* | *3.0%* |
| Construction/Demolition Recycled Materials | | | | | | | | | | | | |
| Tonnage Metal | 18 tons | 0.11% | 0.00% | $150 | $249 | $0 | $0 | $399 | **$22.17** | *$11.19* | */ton* | *98.1%* |
| Tonnage Asphalt /Concrete | 1,877 tons | 11.14% | 14.83% | $13,658 | $22,628 | $85,793 | $0 | $122,079 | **$65.05** | *$46.22* | */ton* | *40.7%* |
| Tonnage Wood | 181 tons | 1.07% | 1.43% | $1,841 | $3,050 | $11,564 | $0 | $16,455 | **$90.91** | *$51.84* | */ton* | *75.4%* |
| Tonnage Other Inert | 1,829 tons | 10.86% | 14.45% | $13,311 | $22,054 | $83,617 | $0 | $118,982 | **$65.05** | *$51.84* | */ton* | *25.5%* |
| Tonnage C&D Recycle | 356 tons | 2.11% | 2.81% | $3,621 | $5,999 | $22,744 | $0 | $32,364 | **$90.91** | *$80.87* | */ton* | *12.4%* |
| Yardwaste & Compost Materials | | | | | | | | | | | | |
| Tonnage Yard Waste | 657 tons | 3.90% | 4.78% | $5,482 | $9,082 | $31,728 | $0 | $46,291 | **$70.46** | *$51.84* | */ton* | *35.9%* |
| Waste-to-Energy & Special Compactor | | | | | | | | | | | | |
| Tonnage Waste-To-Energy (MSW) | 1,011 tons | 6.00% | 8.93% | $8,436 | $13,976 | $83,345 | $0 | $105,756 | **$104.61** | *$95.87* | */ton* | *9.1%* |
| Compactor Variable Restaurant *(special)* | 55 | *N.A.* | *N.A.* | $1,133 | $1,877 | $5,346 | $0 | $8,356 | **$151.41** | *$147.00* | */mo.* | *3.0%* |
| Miscellaneous Fee & Charges | | | | | | | | | | | | |
| DB Monthly Rental ($/mo.) | 671 | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *$99,046* | **$147.61** | *$143.31* | */mo.* | *3.0%* |
| DB Delivery | 439 | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | $0 | **$0.00** | *$0.00* | */empty* | *0.0%* |
| DB Respot | 0 | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | $0 | **$37.49** | *$36.40* | */empty* | *3.0%* |
| **Total** | **16,846 tons** | **100%** | **100%** | **$186,448** | **$308,898** | **$856,487** | **$0** | **$1,459,235** | | | | |
| Additional/Penalty Charges *(for Tonnages Exceeding 11 tons: Includes Base Rate & Penalty)*[5] | | | | | | | | | | | | |
| Tonnage Refuse Mixed +11T | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | **$124.97** | *$161.75* | */ton* | *-22.7%* |
| Tonnage Metal +11T | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | **$33.25** | *N.A.* | */ton* | *N.A.* |
| Tonnage Asphalt +11T | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | **$97.58** | *$92.44* | */ton* | *5.6%* |
| Tonnage Wood +11T | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | **$136.36** | *$103.69* | */ton* | *31.5%* |
| Tonnage All Inerts +11T | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | **$97.58** | *$103.69* | */ton* | *-5.9%* |
| Tonnage C&D Recycle | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | **$136.36** | *N.A.* | */ton* | *N.A.* |
| Tonnage Yard Waste + 11T | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | **$105.69** | *$103.69* | */ton* | *1.9%* |
| Tonnage Waste-To-Energy + 11T | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | *N.A.* | **$156.91** | *$191.74* | */ton* | *-18.2%* |

*1. Tonnage as a percent of total tons, regardless of disposal facility used.*
*2. Adjusted volume to account for actual disposal cost ($/ton) and recycling materials credits. The full disposal costs allocated to commercial are recovered.*
*3. Disposal costs are allocated based on the adjusted volume percentages.*
*4. Roll-Off Collection costs were shifted (in equal amounts) into G&A and TS costs to maintain a reasonable (i.e., a 3% increase) charge for roll-off/drop boxes (empties).*
*5. Tonnages for less than +11 Tons is included in normal tonnage charge calculations. This rate includes the base rate plus a penalty, which is 50% of the base rate.*

**Appendix Table C-6**

| Adjusted Drop Box Tonnage Factors | | | | |
|---|---|---|---|---|
| Drop Box Tonnage | 2014 Tonnage | % of 2014 Tonnage | Adjusted Tons | % of Adj. Tonnage |
| Refuse/MSW | | | | |
| Tonnage Refuse Mixed | 10,917 | 64.8% | 10,917 | 52.8% |
| Recycled Materials | | | | |
| Tonnage Metal | 18 | 0.1% | 0 | 0.0% |
| Tonnage Asphalt /Concrete | 1,877 | 11.1% | 3,068 | 14.8% |
| Tonnage Wood Contaminated | 181 | 1.1% | 296 | 1.4% |
| Tonnage Other Inert | 1,829 | 10.9% | 2,990 | 14.5% |
| Tonnage C&D Recycle | 356 | 2.1% | 582 | 2.8% |
| Yardwaste | | | | |
| Tonnage Yard Waste | 657 | 3.9% | 990 | 4.8% |
| Waste-to-Energy | | | | |
| Tonnage Waste-To-Energy (MSW) | 1,011 | 6.0% | 1,847 | 8.9% |
| Compactor Variable Restaurant | 55 | 0.3% | 83 | 0.4% |
| **Total** | **16,846** | **100%** | **20,690** | **100%** |