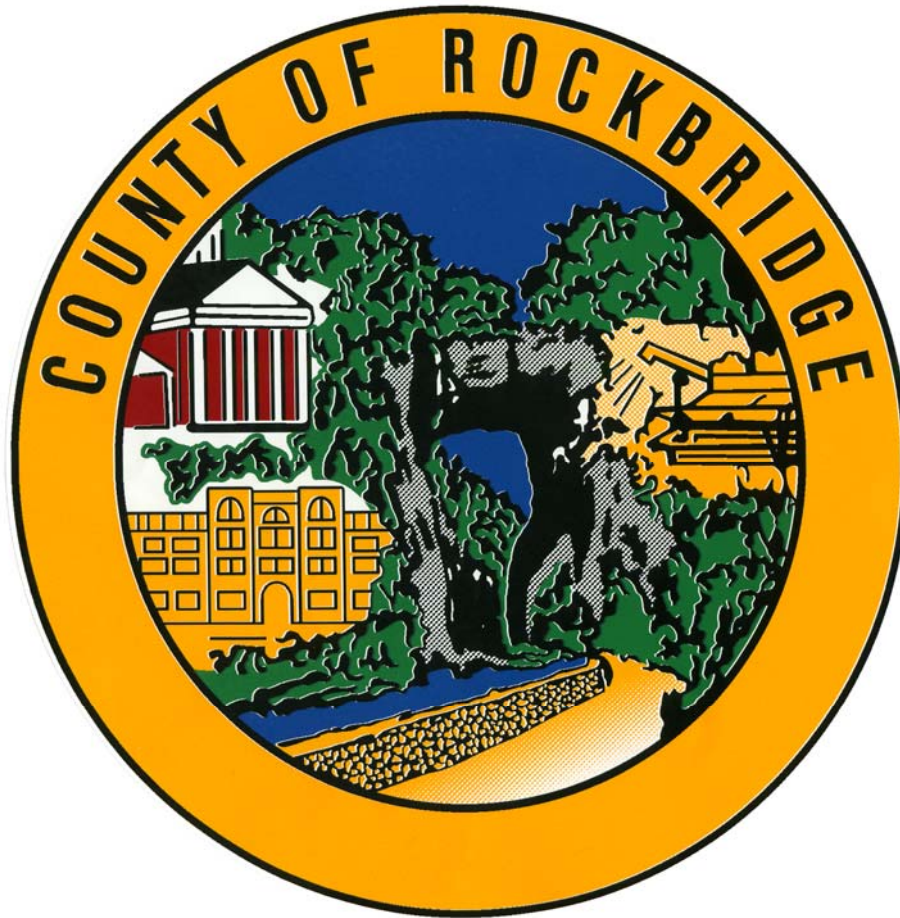


Rockbridge County, Virginia  
Solid Waste & Recycling  
Capital Improvements Program  
FY 2017-2021



Adopted by  
Rockbridge County Solid Waste Authority  
April 20, 2016

**Rockbridge County Solid Waste Authority**  
**Capital Improvements Program**

***Table of Contents***

RCSWA Secretary Memorandum..... Page 1

RCSWA CIP Worksheets..... Page 2

RCSWA Debt Service List by FY..... Page 8

RCSWA Debt Service Chart by FY..... Page 10

CIP Summary Worksheet ..... Page 11





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# County of Rockbridge

Office of the County Administrator

150 South Main Street

Lexington, Virginia 24450

County Board of Supervisors

JOHN M. HIGGINS  
Buffalo  
Magisterial District

RUSSELL S. FORD  
Kerrs Creek  
Magisterial District

DAVID W. HINTY, JR.  
Natural Bridge  
Magisterial District

RONNIE R. CAMPBELL  
South River  
Magisterial District

ALBERT W. LEWIS, JR.  
Walkers Creek  
Magisterial District

## Memorandum

To: Honorable Members of the Rockbridge County Solid Waste Authority

From: *SJS*  
Spencer Suter – Secretary

RE: FYE 2017 – FYE 2021 Capital Improvements Program

Date: April 19, 2016

\*\*\*\*\*

I am pleased to present you with the updated Solid Waste Authority (SWA) capital improvements program (CIP) for fiscal years ending (FYE) 2017 – 2021. The CIP is designed to project major capital needs for construction or major maintenance projects over \$5,000. Development of the plan commenced in October 2015, when staff reviewed the 2016 – 2020 CIP, making adjustments based on existing project progress, and proposed new projects for the future. The plan was approved by the Planning Commission on December 9, 2015 and then provisionally approved by the SWA on January 11, 2016, subject to any ongoing developments in the ongoing budget process.

The FYE 2017 proposed plan includes \$6.4M in overall capital expenditures with the proposed construction of lined landfill expansion as the largest overall cost.

Since the provisional adoption in January, one change has been made to the plan, based on discussions with the Authority during the subsequent budget process:

- 1) Removal of proposed dozer (request withdrawn)

Please let me know if you have any questions.



**CAPITAL IMPROVEMENT PLAN PROJECT REQUEST**  
**FISCAL YEARS ENDING (FYE) 2017 - 2021**

<b>Requesting Department (POC):</b>	SWA - Landfill (Jeremy Garrett)
<b>Project Title:</b>	Purchase of a new Ford Explorer or similar
<b>Budget Line #:</b>	4-19-19040-XXXX

<b>Status:</b> (mark with <b>BOLD "X"</b> )	<input type="checkbox"/>	New Project	<input type="checkbox"/>	No change from prior year's plan	<b>X</b>	Changes Added
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<b>Description:</b> (Enter narrative to the right)	Provide the department Director with a replacement vehicle that is practical for the general needs of the departments general operations. The Vehicle is scheduled to be replaced within acceptable guidelines to maximize efficiencies.
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<b>Justification:</b> (Enter narrative to the right)	The administrations job duties requires a dependable, efficient vehicle for transportation from the Landfill to County and City offices numerous times daily as well as to neighboring Landfills, general errands and to various required training events throughout the state of Virginia.
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<b>Performed by</b> (mark applicable w/ <b>BOLD "X"</b> ):	<input type="checkbox"/>	In-house	<b>X</b>	Contract
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<b>Estimated Annual Impact on Operating Cost:</b>	\$0
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Fund Source	FYE 2017	FYE 2018	FYE 2019	FYE 2020	FYE 2021	Total
Fund 19	\$0	\$0	\$30,600	\$0	\$0	\$30,600
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$30,600</b>	<b>\$0</b>	<b>\$0</b>	<b>\$30,600</b>



**CAPITAL IMPROVEMENT PLAN PROJECT REQUEST**  
**FISCAL YEARS ENDING (FYE) 2017 - 2021**

<b>Requesting Department (POC):</b>	SWA - Landfill (Jeremy Garrett)
<b>Project Title:</b>	Lease-purchase of new CAT 963D track loader ( or equivalent)
<b>Budget Line #:</b>	4-19-19040-XXXX

<b>Status:</b> (mark with <b>BOLD "X"</b> )	<input type="checkbox"/>	New Project	<input type="checkbox"/>	No change from prior year's plan	<b>X</b>	Changes Added
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<b>Description:</b> (Enter narrative to the right)	The current CAT 963DS track loader was purchased in 2013 and scheduled for replacement in 2020. Replacement as scheduled is imperative to the continued efficient operation of the Landfill and reduced maintenance/repair costs.
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<b>Justification:</b> (Enter narrative to the right)	The benefit is to ensure regulatory compliance, maximize services, and minimize unscheduled costs. (Estimated total cost: \$357,000).
---	---

<b>Performed by</b> (mark applicable w/ <b>BOLD "X"</b> ):	<input type="checkbox"/>	In-house	<b>X</b>	Contract
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<b>Estimated Annual Impact on Operating Cost:</b>	\$0
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Fund Source	FYE 2017	FYE 2018	FYE 2019	FYE 2020	FYE 2021	Total
Fund 19	\$0	\$0	\$0	\$71,400	\$71,400	\$357,000
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$71,400</b>	<b>\$71,400</b>	<b>\$357,000</b>



**CAPITAL IMPROVEMENT PLAN PROJECT REQUEST**  
**FISCAL YEARS ENDING (FYE) 2017 - 2021**

<b>Requesting Department (POC):</b>	SWA - Landfill (Jeremy Garrett)
<b>Project Title:</b>	Landfill closure and intermediate cover
<b>Budget Line #:</b>	4-19-19050-XXXX

<b>Status:</b> (mark with <b>BOLD "X"</b> )	<input type="checkbox"/>	New Project	<input type="checkbox"/>	No change from prior year's plan	<input type="checkbox"/>	Changes Added
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<b>Description:</b> (Enter narrative to the right)	Closure and intermediate cover is required by DEQ at the end of the current cells approved lifecycle. Estimated cost includes all engineering, design, permitting, bidding and construction. Cost have been anticipated and closure funds are available under Fund 19. The closure is a required compliance activity under DEQ regulations and protects the existing cell from water infiltration and (wind/water) erosion.
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<b>Justification:</b> (Enter narrative to the right)	*See Above
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<b>Performed by</b> (mark applicable w/ <b>BOLD "X"</b> ):	<input type="checkbox"/>	In-house	<b>X</b>	Contract
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<b>Estimated Annual Impact on Operating Cost:</b>	\$0
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Fund Source	FYE 2017	FYE 2018	FYE 2019	FYE 2020	FYE 2021	Total
Closure	\$93,800	\$1,900,000	\$0	\$0	\$0	\$1,993,800
<b>Total</b>	<b>\$93,800</b>	<b>\$1,900,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,993,800</b>



**CAPITAL IMPROVEMENT PLAN PROJECT REQUEST**  
**FISCAL YEARS ENDING (FYE) 2017 - 2021**

<b>Requesting Department (POC):</b>	SWA - Landfill (Jeremy Garrett)
<b>Project Title:</b>	Lined landfill expansion - cell 1 construction
<b>Budget Line #:</b>	4-19-19070-XXXX

<b>Status:</b> (mark with <b>BOLD "X"</b> )		New Project	<b>X</b>	No change from prior year's plan		Changes Added
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<b>Description:</b> (Enter narrative to the right)	Cell 1 construction covers all associated cost related to well abandonment, liner construction (includes leachate collection), and gas probe construction. The construction of the new lined landfill cell will prevent the need to transfer waste and potentially save several tens of millions of dollars over the next forty plus years.
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<b>Justification:</b> (Enter narrative to the right)	Cell expansion has been evaluated and determined to be the most efficient solution to handling the refuse disposal needs for the County and City of Lexington moving forward.
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<b>Performed by</b> (mark applicable w/ <b>BOLD "X"</b> ):		In-house		Contract
--	--	----------	--	----------

<b>Estimated Annual Impact on Operating Cost:</b>	\$0
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Fund Source	FYE 2017	FYE 2018	FYE 2019	FYE 2020	FYE 2021	Total
Rev Bond	\$6,314,760	\$10,400	\$0	\$0	\$0	\$6,325,160
<b>Total</b>	<b>\$6,314,760</b>	<b>\$10,400</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$6,325,160</b>



**CAPITAL IMPROVEMENT PLAN PROJECT REQUEST**  
**FISCAL YEARS ENDING (FYE) 2017 - 2021**

<b>Requesting Department (POC):</b>	SWA - Recycling (Jeremy Garrett)
<b>Project Title:</b>	Fairfield Staffed Collection Center (Pre-Crusher)
<b>Budget Line #:</b>	4-20-42080-7004

<b>Status:</b> (mark with <b>BOLD "X"</b> )	<b>X</b>	New Project	No change from prior year's plan	Changes Added
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<b>Description:</b> (Enter narrative to the right)	Replace the existing compactor at Fairfield Staffed Collection Center with a larger unit to include a pre-crusher. The existing compactor will be utilized at other sites to be developed or upgraded. Note: this proposed worksheet is contingent upon on the Board's concurrence, in whole or in part, with recommendations from SCS Engineering which has developed a new Solid Waste Management Study and Strategic Plan (SWMSSP) for the County.
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<b>Justification:</b> (Enter narrative to the right)	The volume of trash collected at this center has increased and is expected to increase significantly provided the neighboring unstaffed collection centers closes. Due to the high population of the area being serviced, the need to upgrade the capacity of the compactor to handle the tonnage is necessary to operate efficiently. The upgrade will provide the staffed center with the ability to handle much larger bulky items collected on site, maintain convenience, minimize hauling cost and help to promote an effective and efficient recycling and trash collection program. Procurement execution to be determined/based on projected versus real usage at collection center after closure of unstaffed sites.
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<b>Performed by</b> (mark applicable w/ <b>BOLD "X"</b> ):	<input type="checkbox"/>	In-house	<b>X</b>	Contract
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<b>Estimated Annual Impact on Operating Cost:</b>	\$0
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Fund Source	FYE 2017	FYE 2018	FYE 2019	FYE 2020	FYE 2021	Total
GF Xfer	\$0	\$50,000	\$0	\$0	\$0	\$50,000
<b>Total</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>





## CAPITAL IMPROVEMENT PLAN PROJECT REQUEST FISCAL YEARS ENDING (FYE) 2017 - 2021

<b>Requesting Department (POC):</b>	SWA - Recycling (Jeremy Garrett)
<b>Project Title:</b>	Greenhouse Road Staffed Collection Center (Pre-Crusher)
<b>Budget Line #:</b>	4-20-42080-7004

<b>Status:</b> (mark with <b>BOLD "X"</b> )	<b>X</b>	New Project	No change from prior year's plan	Changes Added
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<b>Description:</b> (Enter narrative to the right)	Replace the existing compactor at Greenhouse Road Staffed Collection Center with a larger unit to include a pre-crusher. The existing compactor will be utilized at other sites to be developed or upgraded. Note: this proposed worksheet is contingent upon on the Board's concurrence, in whole or in part, with recommendations from SCS Engineering which has developed a new Solid Waste Management Study and Strategic Plan (SWMSSP) for the County.
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<b>Justification:</b> (Enter narrative to the right)	The volume of trash collected at this center has increased and is expected to grow significantly provided the neighboring unstaffed collection centers close. Due to the high population of the area being serviced, the need to upgrade the capacity of the compactor to handle the tonnage is necessary to operate efficiently. The upgrade will provide the staffed center with the ability to handle much larger bulky items collected on site, maintain convenience, minimize hauling cost and help to promote an effective and efficient recycling and trash collection program. Procurement execution to be determined/based on projected versus real usage at collection center after the closure of unstaffed sites.
---	---

<b>Performed by</b> (mark applicable w/ <b>BOLD "X"</b> ):	<input type="checkbox"/>	In-house	<b>X</b>	Contract
--	--------------------------	----------	----------	----------

<b>Estimated Annual Impact on Operating Cost:</b>	\$0
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Fund Source	FYE 2017	FYE 2018	FYE 2019	FYE 2020	FYE 2021	Total
GF Xfer	\$0	\$50,000	\$0	\$0	\$0	\$50,000
<b>Total</b>	<b>\$0</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$50,000</b>

**FY 16-17**

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19040-8002	SWA Landfill Loader	Caterpillar	Monthly	\$64,172.37	\$2,879.91	\$67,052.28
4-19-19040-8002	SWA Landfill Compactor	Santander	Monthly	\$78,129.71	\$4,543.45	\$82,673.16
4-19-19040-8002	SWA Landfill Excavator	KS St. Bank	Monthly	\$53,679.47	\$5,975.14	\$59,654.61
4-19-19040-8002	SWA Landfill Haul Truck	KS St. Bank	Monthly	\$77,246.06	\$8,598.37	\$85,844.43
4-19-19040-9902	Transfer Station	VRA	10/1/16	\$25,000.00	\$14,571.88	\$39,571.88
4-19-19040-9902	Transfer Station	VRA	4/1/17	\$0.00	\$14,081.25	\$14,081.25
<b>Total FY 16-17</b>				<b>\$298,227.61</b>	<b>\$50,650.00</b>	<b>\$348,877.61</b>

**FY 17-18**

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19040-8002	SWA Landfill Loader	Caterpillar	Monthly	\$66,242.38	\$810.90	\$67,053.28
4-19-19040-8002	SWA Landfill Compactor	Santander	Monthly	\$80,419.10	\$2,254.06	\$82,673.16
4-19-19040-8002	SWA Landfill Excavator	KS St. Bank	Monthly	\$55,130.38	\$4,524.23	\$59,654.61
4-19-19040-8002	SWA Landfill Haul Truck	KS St. Bank	Monthly	\$79,333.96	\$6,510.47	\$85,844.43
4-19-19040-9902	Transfer Station	VRA	10/1/17	\$25,000.00	\$14,081.25	\$39,081.25
4-19-19040-9902	Transfer Station	VRA	4/1/18	\$0.00	\$13,440.63	\$13,440.63
4-19-19070-xxxx	Lined Landfill - Infrastructure	TBD	TBD	\$126,292.00	\$0.00	\$126,292.00
4-19-19070-xxxx	Lined Landfill-Cell 1	TBD	TBD	\$744,380.00	\$0.00	\$744,380.00
<b>Total FY 17-18</b>				<b>\$1,176,797.82</b>	<b>\$41,621.54</b>	<b>\$1,218,419.36</b>

**FY 18-19**

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19040-8002	SWA Landfill Compactor	Santander	Monthly	\$34,199.51	\$247.64	\$34,447.15
4-19-19040-8002	SWA Landfill Excavator	KS St. Bank	Monthly	\$47,796.00	\$0.00	\$47,796.00
4-19-19040-8002	SWA Landfill Haul Truck	KS St. Bank	Monthly	\$69,747.00	\$0.00	\$69,747.00
4-19-19040-9902	Transfer Station	VRA	10/1/18	\$56,620.50	\$3,034.11	\$59,654.61
4-19-19040-9902	Transfer Station	VRA	4/1/19	\$81,478.28	\$4,366.15	\$85,844.43
4-19-19070-xxxx	Lined Landfill - Infrastructure	TBD	TBD	\$126,292.00	\$0.00	\$126,292.00
4-19-19070-xxxx	Lined Landfill-Cell 1	TBD	TBD	\$744,380.00	\$0.00	\$744,380.00
<b>Total FY18-19</b>				<b>\$1,160,513.29</b>	<b>\$7,647.90</b>	<b>\$1,168,161.19</b>

**FY 19-20**

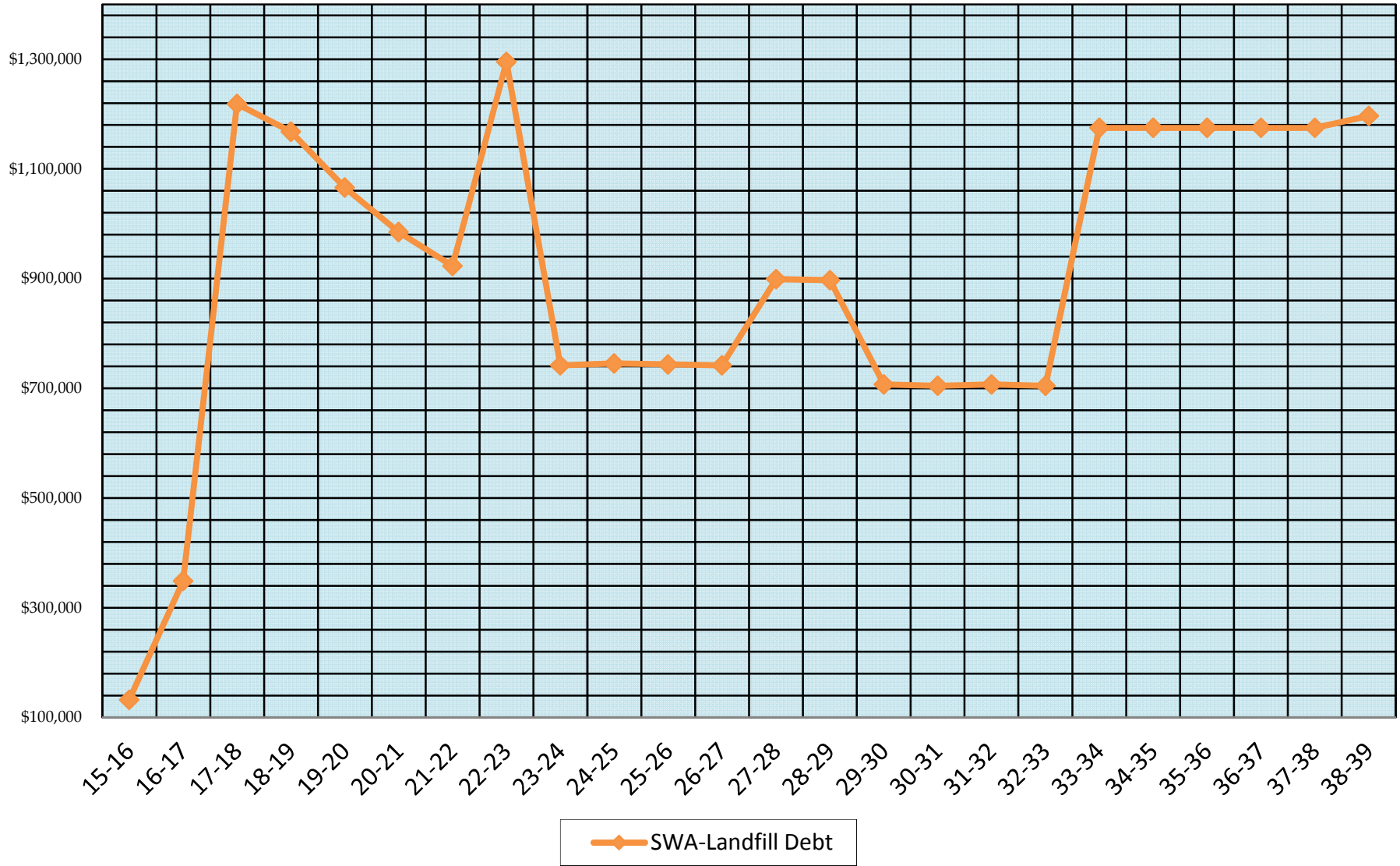
<b>Account</b>	<b>Purpose</b>	<b>Company</b>	<b>Due Date</b>	<b>Principal</b>	<b>Interest</b>	<b>Total</b>
4-19-19040-8002	SWA Landfill Excavator	KS St. Bank	Monthly	\$58,150.92	\$1,503.68	\$59,654.61
4-19-19040-8002	SWA Landfill Haul Truck	KS St. Bank	Monthly	\$83,680.60	\$2,163.84	\$85,844.43
4-19-19040-9902	Transfer Station	VRA	10/1/19	\$25,000.00	\$12,875.00	\$37,875.00
4-19-19040-9902	Transfer Station	VRA	4/1/20	\$0.00	\$12,234.38	\$12,234.38
<i>4-19-19070-xxxx</i>	<i>Lined Landfill - Infrastructure</i>	<i>TBD</i>	<i>TBD</i>	<i>\$126,292.00</i>	<i>\$0.00</i>	<i>\$126,292.00</i>
<i>4-19-19070-xxxx</i>	<i>Lined Landfill-Cell 1</i>	<i>TBD</i>	<i>TBD</i>	<i>\$744,380.00</i>	<i>\$0.00</i>	<i>\$744,380.00</i>
<b>Total FY 19-20</b>				<b>\$1,037,503.52</b>	<b>\$28,776.90</b>	<b>\$1,066,280.42</b>

**FY 20-21**

<b>Account</b>	<b>Purpose</b>	<b>Company</b>	<b>Due Date</b>	<b>Principal</b>	<b>Interest</b>	<b>Total</b>
4-19-19040-8002	SWA Landfill Excavator	KS St. Bank	Monthly	\$24,691.02	\$165.06	\$24,856.09
4-19-19040-8002	SWA Landfill Haul Truck	KS St. Bank	Monthly	\$35,530.99	\$237.53	\$35,768.51
4-19-19040-9902	Transfer Station	VRA	10/1/20	\$30,000.00	\$12,234.38	\$42,234.38
4-19-19040-9902	Transfer Station	VRA	4/1/21	\$0.00	\$11,465.63	\$11,465.63
<i>4-19-19070-xxxx</i>	<i>Lined Landfill - Infrastructure</i>	<i>TBD</i>	<i>TBD</i>	<i>\$126,292.00</i>	<i>\$0.00</i>	<i>\$126,292.00</i>
<i>4-19-19070-xxxx</i>	<i>Lined Landfill-Cell 1</i>	<i>TBD</i>	<i>TBD</i>	<i>\$744,380.00</i>	<i>\$0.00</i>	<i>\$744,380.00</i>
<b>Total FY 20-21</b>				<b>\$960,894.01</b>	<b>\$24,102.60</b>	<b>\$984,996.61</b>

# SWA-Landfill Debt Service

## FY 15-16 and beyond



**DRAFT**

**Rockbridge County Solid Waste Authority (SWA)  
Capital Improvements Program Summary  
FYE 2017-2021**

**LAST UPDATE 04-19-2016**

<b>PROJECT</b>	<b>WORKSHEET PG#</b>	<b>FYE 2017</b>	<b>FYE 2018</b>	<b>FYE 2019</b>	<b>FYE 2020</b>	<b>FYE 2021</b>	<b>SUBTOTAL</b>
<b>SWA - Landfill (Fund 19)</b>							
<b>Landfill Operations (19040)</b>							
Purchase of New Ford Explorer (or equivalent)	2	\$0	\$0	\$30,600	\$0	\$0	
Lease-Purchase: CAT 963D Track Loader (or eq)	3	\$0	\$0	\$0	\$71,400	\$71,400	
<b>SUBTOTAL</b>		<b>\$0</b>	<b>\$0</b>	<b>\$30,600</b>	<b>\$71,400</b>	<b>\$71,400</b>	<b>\$173,400</b>
<b>Landfill Closure/Post-Closure (19050)</b>							
Landfill Closure & Intermediate Cover	4	\$93,800	\$1,900,000	\$0	\$0	\$0	
<b>SUBTOTAL</b>		<b>\$93,800</b>	<b>\$1,900,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,993,800</b>
<b>Landfill Expansion-Cell 1 (19070)</b>							
Lined Landfill Expansion - Cell 1 Construction	5	\$6,314,760	\$10,400	\$0	\$0	\$0	
<b>SUBTOTAL</b>		<b>\$6,314,760</b>	<b>\$10,400</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$6,325,160</b>
<b>TOTAL Fund 19 without Debt Service</b>		<b>\$6,408,560</b>	<b>\$1,910,400</b>	<b>\$30,600</b>	<b>\$71,400</b>	<b>\$71,400</b>	<b>\$8,492,360</b>
<b>SWA - Recycling (Fund 20 - 42080)</b>							
Fairfield Collection Center (Compactor)	6	\$0	\$50,000	\$0	\$0	\$0	
Greenhouse Rd Collection Center (Compactor)	7	\$0	\$50,000	\$0	\$0	\$0	
<b>TOTAL Fund 20</b>		<b>\$0</b>	<b>\$100,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100,000</b>
<b>SWA Debt (Principal Only w/o Interest) SEE NEXT SPREADSHEET FOR INTREST ON DEBT</b>							
2012 VRA Rev. Bond, Transfer Station		\$25,000	\$25,000	\$25,000	\$25,000	\$30,000	
2013 CAT Financial, Track Loader		\$64,172	\$66,242	\$0	\$0	\$0	
2013 Santander Leasing, Compactor		\$78,130	\$80,419	\$34,200	\$0	\$0	
2015 KC StateBank, Articulated Haul Truck		\$85,844	\$85,844	\$85,844	\$85,844	\$85,844	
2015 KC StateBank, Excavator		\$59,655	\$59,655	\$59,655	\$59,655	\$59,655	
Lined Landfill Cell 1		\$870,671	\$870,671	\$870,671	\$870,671	\$870,671	
<b>Total SWA Debt</b>		<b>\$1,183,472</b>	<b>\$870,671</b>	<b>\$870,671</b>	<b>\$870,671</b>	<b>\$870,671</b>	<b>\$4,666,156</b>