Blue Ridge Resource Authority Capital Improvements Plan

FY 2024-2028



Presented to the Blue Ridge Resource Authority Board April 10, 2023

The Blue Ridge Resource Authority Capitol Improvements Plan For Fiscal Years 24-28



I am pleased to present to you the proposed FY24- FY28 Capital Improvements Program (CIP) for The BRRA. This CIP plan includes \$2,311,451 of capital improvements for the BRRA. The plan identifies \$2,226,451 of equipment procurements through planned lease-purchase agreements. This plan also includes \$45,000 for the purchase of a new slope mower which is due for replacement in FY 2024, and an additional \$40,000 for the purchase of a new leachate pump, also due for replacement in FY 2024.

This plan consists of equipment procurement in the form of 5 and 10 year lease agreements. These lease agreements represent a continued plan of financing the Authority put into place 14 years ago. We are currently into our second transition of equipment. Our Cat IT14 wheel loader is on a scheduled life cycle of 15 years. It was purchased used in 1994. This machine is used daily in our collection center to unload waste, supplies, manage our brush pile, and is also used for numerous tasks across our site. The replacement was scheduled for FY 2024; however, based on the current condition of the machine, staff has decided to postpone replacement until FY 2026. The projected replacement cost will be \$166,222.

The John Deere Track Loader (or equivalent), is on a scheduled life cycle of 5 years. This particular piece of equipment is used daily to push up waste. Construction debris is considered a harsh environment for this piece of equipment. The rate of replacement of the track loader is \$452,735. Replacement will be required in FY 2024.

The Al-Jon Compactor (or equivalent) is the most important piece of equipment to the landfill. Compaction provides efficiency by saving airspace. The compactor is a unique piece of equipment and is not readily available for rental should our unit breakdown. The estimated cost of replacement is \$802,500 and will be required in FY 2025. This unit has a 10 year life cycle. By FY 2025 the life cycle will have been extended to 12 years.

The Volvo EC350 Excavator (or equivalent) serves a vital role at the landfill. It is used daily for the excavation of cover soil and various other projects around our site. It has an expected life span of 10 years. It is currently scheduled to be replaced in FY 2026. The estimated cost of replacement is \$344,189.

The Volvo A30G Articulating truck (or equivalent) is required to support daily landfill activities such as transporting daily cover soil from the borrow area to the working face, and moving other various materials around the site. It has an estimated life cycle of 14 years. It is currently scheduled to be replaced in FY 2028. The estimated cost of replacement is \$460,805.

CAPITAL IMPROVEMENT PLAN REQUEST

FISCAL YEARS ENDING (FYE 2024 - 2028)



Requesting Organization:	Blue Ridge Resource Auth	Blue Ridge Resource Authority					
Project Title:	Purchase of a Ventrac 450	Purchase of a Ventrac 4500Z Slope Mower (or equivalent)					
Budget Line #:	4-19-19040-7002	4-19-19040-7002					
Status:	New	No change from		Changes			
(mark with вого "x")	Project	prior year's plan	1	Added			

	The BRRA is currently operating a Ventrac 4500Z slope mower which was purchased in December of 2012. Staff is requesting to replace this machine in FY 2024. This procurement plan assumes a 12-year life cycle.
(Enter narrative to the right)	The Ventrac 4500Z slope mower is an essential machine for mowing of the landfill slopes and is also utilized for other necessary mowing operations on the property. The estimated replacement cost of the machine is \$45,000.00 and would be purchased through a cooperative procurement group or State contract. Staff is requesting that funding for this purchase be added to our FY 2024 budget.

Performed by (mark applicable w/ BOLD "X"):	х	In-house		Contract	
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Estimated Annual Impact on Operating Cost					\$2,160		
Fund Source	FYE 2024	FYE 2025	FYE 2026	FYE 2027	FYE 2028	Not Yet Programmed	Total
Op Revenues	\$45,000	\$0	\$0	\$0	\$0	\$0	\$45,000
Total	\$45,000	\$0	\$0	\$0	\$0	\$0	\$45,000

CAPITAL IMPROVEMENT PLAN REQUEST

FISCAL YEARS ENDING (FYE 2024 - 2028)



Requesting Organization:	В	Blue Ridge Resource Authority						
Project Title:	oject Title: Purchase of a Wacker-Neuson 6" leachate pump (or equivalent)							
Budget Line #:	4	-19-19040-7002						
Status:		New	No change from	Changes				
(mark with вого "x")		Project	prior year's plan	Added				

·	The BRRA is currently operating a Wacker Neuson, 6 inch trash pump which was purchased in February of 2017. Staff is requesting to replace this machine in FY 2024. This procurement plan assumes a 5-year life cycle.
(Enter narrative to the right)	The leachate pump is a necessary tool that is used to pump leachate from the basin, into the tanker. The estimated replacement cost of the machine is \$40,000.00 and would be purchased through a cooperative procurement group or State contract. Staff is requesting that funding for this purchase be added to our FY 2024 budget.

Performed by (mark applicable w/ BOLD "X"):	х	In-house		Contract	
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Estimated Annual Impact on Operating Cost				\$1,440			
Fund Source	FYE 2024	FYE 2025	FYE 2026	FYE 2027	FYE 2028	Not Yet Programmed	Total
Op Revenues	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000
Total	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000



Requesting Organization:	Blue Ridge Resource	Blue Ridge Resource Authority					
Project Title:	Lease-Purchase of J	ease-Purchase of John Deere Track Loader (or equivalent)					
Budget Line #:	4-19-19040-8002	4-19-19040-8002					
Status:	New		No change from		Changes		
(mark with вого "x")	Project		prior year's plan	^	Added		

	The BRRA is currently operating a 2018 John Deere 755K Track Loader. Staff is requesting to replace the equipment in FY 2024. This procurement plan assumes a 5 year life cycle for the current machine.
(Enter narrative to the right)	It has been made clear through past operations and analysis of other landfill programs that scheduled replacement of key equipment will greatly reduce maintenance and repair costs, and will require lower rental expenses and/or downtime due to equipment failures. The benefit is to ensure regulatory compliance, maximize services, and minimize unscheduled costs. This piece of equipment is scheduled to be replaced in FY 2024. Staff anticipates a 5-year lease term at an interest rate of 7%. Principal value @ \$452,735; interest @ \$85,147 with a total of 5 annual payments @ \$107,576, for a total cost of \$537,882. The former equipment can be sold as surplus to recoup costs. Procurement will be made via an existing cooperative procurement contract.

Performed by (mark applicable w/ BOLD "X"):

In-house

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Estimated Annual Impact on Operating Cost					\$33,600			
Fund Source	FYE 2024	FYE 2025	FYE 2026	FYE 2027	FYE 2028	Not Yet Programmed	Total	
Op Revenues	\$107,576	\$107,576	\$107,576	\$107,576	\$107,576	\$0	\$537,880	
Total	\$107,576	\$107,576	\$107,576	\$107,576	\$107,576	\$0	\$537,880	



Requesting Organization:	Blue Ridge Resource Auth	Blue Ridge Resource Authority						
Project Title:	Lease-Purchase of Al-Jon	ease-Purchase of Al-Jon Compactor (or equivalent)						
Budget Line #:	4-19-19040-8002	4-19-19040-8002						
Status:	New	No change from	l v	Changes				
(mark with вого "х"	Project	prior year's plan	^	Added				

Description: (Enter narrative to the right)	The BRRA is currently operating a 2013 AlJon ADV500 Landfill Compactor (put into service 2013). Staff is requesting to replace the equipment in FY 2025. This procurement plan assumes a 10-year life cycle for the current machine.
Justification: (Enter narrative to the right)	The Al-Jon Compactor is scheduled to be replaced in FY 2025. An additional two years of service life is being added to the existing unit as staff believes the compactor has additional service life remaining. The additional two years will assist the BRRA in out-year budgeting to meet operational and closure/post-closure requirements. Staff anticipates a 10 year lease term at an interest rate of 7%. Principal value @ \$802,500; interest @ \$315,625 with a total of 10 annual payments @ \$111,813 for a total cost of \$1,118,127. The former equipment can be sold as surplus to recoup costs. Procurement will be made via an existing cooperative procurement contract.

Performed by (mark applicable w/ BOLD "X"):

In-house

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Estimated Annual Impact on Operating Cost					\$48,000				
Fund Source	FYE 2024	FYE 2025	FYE 2026	FYE 2027	2027 FYE 2028 Not Yet Total				
Op Revenues	\$0	\$111,813	\$111,813	\$111,813	\$111,813	\$670,875	\$1,118,127		
Total	\$0	\$111,813	\$111,813	\$111,813	\$111,813	\$670,875	\$1,118,127		



Requesting Organization:	Blue Ridge Resource Au	Blue Ridge Resource Authority								
Project Title:	Lease Purchase of Volvo	Lease Purchase of Volvo EC350 Excavator (or equivalent)								
Budget Line #:	4-19-19040-8002	4-19-19040-8002								
Status:	New		No change from		Changes					

Status:	New	No change from	v	Changes
(mark with вого "х"	Project	prior year's plan	^	Added

Description:	The BRRA is currently operating a Volvo EC350EL Crawler Excavator. This machine was purchased in FY 2016. Staff is requesting to
(Enter narrative to the right)	replace the equipment in FY 2026. This procurement plan assumes a 10-year life cycle for the current machine.
(Enter narrative to the right)	It has been made clear through past operations and analysis of other landfill programs that scheduled replacement of key equipment will greatly reduce maintenance and repair costs, and will require lower rental expenses and/or downtime due to equipment failures. The benefit is to ensure regulatory compliance, maximize services, and minimize unscheduled costs. In FY 2026, staff anticipates a 5 year lease term at an interest rate of 7%. Principal value @ \$344,189; interest @ \$64,732 with a total of 5 annual payments @ \$81,784 for a total cost of \$408,921. The former equipment can be sold as surplus to recoup costs. Procurement will be made via an existing cooperative procurement contract.

Performed by (mark applicable w/ BOLD "X"):

In-house

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Estimated Annual Impact on Operating Cost					\$21,600					
Fund Source	FYE 2024	FYE 2025	FYE 2026	FYE 2027	FYE 2028	Not Yet Programmed	Total			
Op Revenues	\$0	\$0	\$81,784	\$81,784	\$81,784	\$163,569	\$408,921			
Total	\$0	\$0	\$81,784	\$81,784	\$81,784	\$163,569	\$408,921			



Requesting Organ										
Project Title:		Lease-Purchase of a Hitach	hi ZW150PL Wheel Loader (or equ	livalent)						
Budget Line #:		4-19-19040-8002	4-19-19040-8002							
Status: (mark with вого "x"		New Project	No change from prior year's plan	x	Changes Added					
Description:	The BRRA is curre	ntly operating a CAT IT14 Whee	el Loader purchased in August of 1	.994. The curren ⁻	t machine has 10,000 hours on it.					
(Enter narrative to the right)	Staff is requesting	; to replace the current machine	e in FY 2026. This procurement pla	in assumes a 17	year life cycle.					
Justification:	It has been made cle	ear through past operations and ana	alvsis of other landfill programs that sc	heduled replacem	ent of key equipment will greatly reduce					
			ental expenses and/or downtime due to	•						

maintenance and repair costs, and will require lower rental expenses and/or downtime due to equipment failures. This machine is essential to the effecient operation of the Authority. It's used to load and unload materials, supplies and waste. It is also used to load commingle material, manage the brush pile, and complete numerous other maintenance projects across the site. This piece of equipment is scheduled to be replaced in FY 2026. Staff anticipates a 5-year lease term at an interest rate of 7%. Principal value @ \$166,222; interest @ \$31,261 with a total of 60 payments @ \$3,291 for a total cost of \$197,484. The former equipment can be sold as surplus to recoup costs. Procurement will be made via an existing cooperative procurement contract.

Performed by (mark applicable w/ BOLD "X"):

In-house

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Estimated Annual Impact on Operating Cost					\$3,000				
Fund Source	FYE 2024	FYE 2025	FYE 2026	FYE 2027	FYE 2028	Not Yet Programmed	Total		
Op Revenues	\$0	\$0	\$39,497	\$39,497	\$39,497	\$78,994	\$197,484		
Total	\$0	\$0	\$39,497	\$39,497	\$39,497	\$78,994	\$197,484		



Requesting Organ	ization:	Blue Ridge Resource Authority							
Project Title:		Lease-Purchase of Volvo A30G Artic Truck (or equivalent)							
Budget Line #:		4-19-19040-8002							
Status: (mark with вого "x")		New Project	No change from prior year's plan	x	Changes Added				
Description: (Enter narrative to the right)			tic Truck. This machine was purcha sumes a 14-year life cycle for the c						
Justification: (Enter narrative to the right)	maintenance and rep compliance, maximiz at an interest rate of	air costs, and will require lower re e services, and minimize unschedu 7%. Principal value @ \$460,805; in	ntal expenses and/or downtime due to led costs. The Articulated Truck will be	e equipment failur e replaced in FY 20 nual payments @	nent of key equipment will greatly reduce res. The benefit is to ensure regulatory 028. Staff anticipates a 5-year lease term \$109,323 for a total cost of \$547,334. ative procurement contract.				

Performed by (mark applicable w/ BOLD "X"):

In-house

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Estimated Annual Impact on Operating Cost				\$24,000				
Fund Source	FYE 2024	FYE 2025	2025 FYE 2026 FYE 2027 FYE 2028 Not Yet Tot					
Op Revenues	\$0	\$0	\$0	\$0	\$109,323	\$438,011	\$547,334	
Total	\$0	\$0	\$0	\$0	\$109,323	\$438,011	\$547,334	

BRRA Debt Service FY24-28



FY 2024								
Account	Purpose	Company	Due Date	Principal		erest	Total	
4-19-19040-8002	John Deere Track Loader		Monthly	\$ 71,626	\$	27,016	\$	98,642
4-19-19040-9902	Transfer Station	VRA	10/1/23	\$ 30,000	\$	10,028	\$	40,028
4-19-19040-9902	Transfer Station	VRA	4/1/24	\$ -	\$	9,259	\$	9,259
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	10/1/23	\$ 90,000	\$	49,722	\$	139,722
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	4/1/24	\$ -	\$	47,416	\$	47,416
4-19-19080-XXXX	Cell-2	VRA	10/1/23	\$ 360,000	\$	89,047	\$	449,047
4-19-19080-XXXX	Cell-2	VRA	4/1/24		\$	79,822	\$	79,822
4-19-19040-9900	Closure & Post Closure			\$ 355,000			\$	355,000
Total FY 2024				\$ 906,626	\$	312,310	\$	1,218,936

FY2025

Account	Purpose	Company	Due Date	Principal	Int	erest	Tot	al
4-19-19040-8002	John Deere Track Loader		Monthly	\$ 83,545	\$	24,031	\$	107,576
4-19-19040-8002	Aljon Compactor		Monthly	\$ 52,515	\$	49,980	\$	102,495
4-19-19040-9902	Transfer Station	VRA	10/1/24	\$ 35,000	\$	9,259	\$	44,259
4-19-19040-9902	Transfer Station	VRA	4/1/25	\$ -	\$	8,363	\$	8,363
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	10/1/24	\$ 95,000	\$	47,416	\$	142,416
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	4/1/25	\$ -	\$	44,981	\$	44,981
4-19-19080-XXXX	Cell-2	VRA	10/1/24	\$ 380,000	\$	79,822	\$	459,822
4-19-19080-XXXX	Cell-2	VRA	4/1/25		\$	70,084	\$	70,084
4-19-19040-9900	Closure & Post Closure			\$ 363,875			\$	363,875
Total FY 2025				\$ 1,009,935	\$	333,936	\$	1,343,871

BRRA CIP 24-28

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BRRA Debt Service FY24-28



FY 2026							DECE NIDGE NESC	ence	ine fino da fi
Account	Purpose	Company	Due Date	Principal		Interest		Total	
4-19-19040-8002	John Deere Track Loader		Monthly	\$	89,585	\$	17,991	\$	107,576
4-19-19040-8002	Aljon Compactor		Monthly	\$	61,254	\$	50,559	\$	111,812
4-19-19040-8002	Volvo Excavator		Monthly	\$	54,453	\$	20,516	\$	74,969
4-19-19040-8002	Hitachi ZW150PL Wheel Loader		Monthly	\$	26,298	\$	9,908	\$	36,205
4-19-19040-9902	Transfer Station	VRA	10/1/25	\$	35,000	\$	8,363	\$	43,363
4-19-19040-9902	Transfer Station	VRA	4/1/26	\$	-	\$	7,466	\$	7,466
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	10/1/25	\$	100,000	\$	44,981	\$	144,981
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	4/1/26	\$	-	\$	42,569	\$	42,569
4-19-19080-XXXX	Cell-2	VRA	10/1/25	\$	400,000	\$	70,084	\$	470,084
4-19-19080-XXXX	Cell-2	VRA	4/1/26			\$	59 <i>,</i> 834	\$	59,834
4-19-19040-9900	Closure & Post Closure			\$	372,972			\$	372,972
Total FY 2026			\$	1,139,561	\$	332,270	\$	1,471,831	

FY 2027

Account	Purpose	Company	Due Date	Principal		Interest		То	tal
4-19-19040-8002	John Deere Track Loader		Monthly	\$	96,061	\$	11,515	\$	107,576
4-19-19040-8002	Aljon Compactor		Monthly	\$	65,682	\$	46,130	\$	111,812
4-19-19040-8002	Volvo Excavator		Monthly	\$	63,515	\$	18,269	\$	81,784
4-19-19040-8002	Hitachi ZW150PL Wheel Loader		Monthly	\$	30,674	\$	8,823	\$	39,497
4-19-19040-9902	Transfer Station	VRA	10/1/26	\$	35,000	\$	7,466	\$	42,466
4-19-19040-9902	Transfer Station	VRA	4/1/27	\$	-	\$	6,669	\$	6,669
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	10/1/26	\$	105,000	\$	42,569	\$	147,569
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	4/1/27	\$	-	\$	40,028	\$	40,028
4-19-19080-XXXX	Cell-2	VRA	10/1/26	\$	420,000	\$	59,834	\$	479,834
4-19-19080-XXXX	Cell-2	VRA	4/1/27			\$	49,072	\$	59 <i>,</i> 834
4-19-19040-9900	Closure & Post Closure			\$	382,296	\$	-	\$	382,296
Total FY 2027			\$	1,198,228	\$	290,376	\$	1,499,366	

BRRA Debt Service FY24-28



FY 2028									
Account	Purpose	Company	Due Date	Principal		Interest		Total	
4-19-19040-8002	John Deere Track Loader		Monthly	\$	103,005	\$	4,571	\$	107,576
4-19-19040-8002	Aljon Compactor		Monthly	\$	70,430	\$	41,382	\$	111,812
4-19-19040-8002	Volvo Excavator		Monthly	\$	68,106	\$	13,678	\$	81,784
4-19-19040-8002	Hitachi ZW150PL Wheel Loader		Monthly	\$	32,891	\$	6,606	\$	39,497
4-19-19040-8002	Volvo Artic Truck		Monthly	\$	72,789	\$	27,424	\$	100,213
4-19-19040-9902	Transfer Station	VRA	10/1/27	\$	40,000	\$	6,669	\$	46,669
4-19-19040-9902	Transfer Station	VRA	4/1/28	\$	-	\$	5,794	\$	5,794
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	10/1/27	\$	110,000	\$	40,028	\$	150,028
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	4/1/28	\$	-	\$	37,509	\$	37,509
4-19-19080-XXXX	Cell-2	VRA	10/1/27	\$	445,000	\$	49,072	\$	494,072
4-19-19080-XXXX	Cell-2	VRA	4/1/28			\$	37,669	\$	59,834
4-19-19040-9900	Closure & Post Closure			\$	391,854	\$	-	\$	391,854
Total FY 2028			\$	1,334,075	\$	270,401	\$	1,626,642	