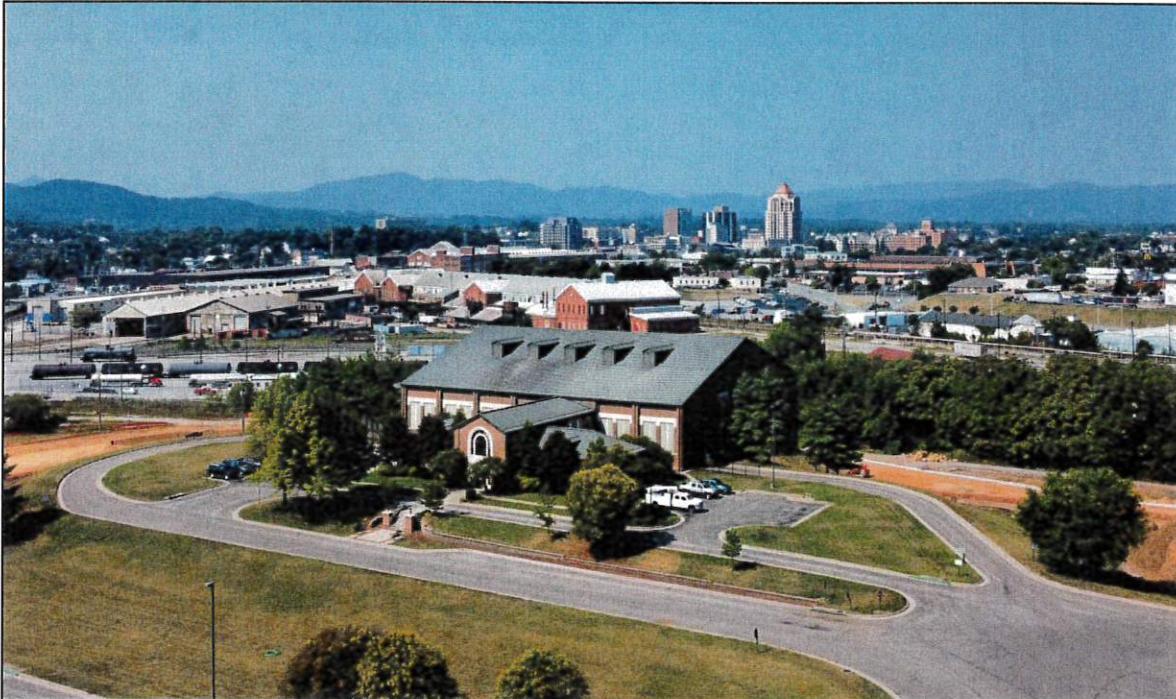


ROANOKE VALLEY RESOURCE AUTHORITY

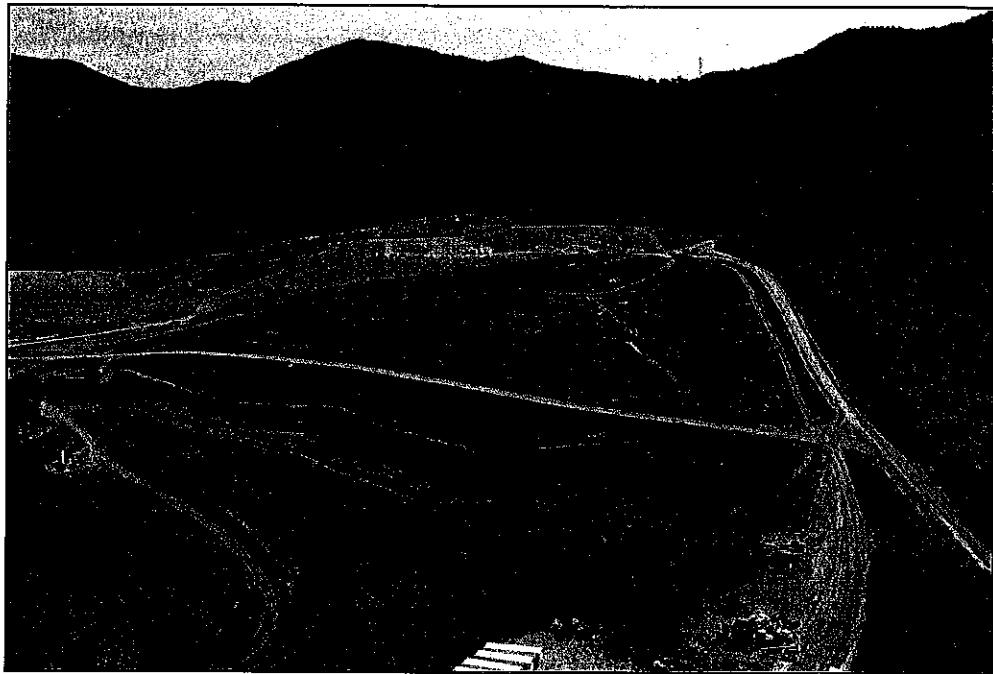
FY 2022-23
ANNUAL
OPERATING &
RESERVES
BUDGET



TINKER CREEK TRANSFER STATION

ROANOKE VALLEY RESOURCE AUTHORITY

2022-23
OPERATING
BUDGET



SMITH GAP LANDFILL

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REVENUE

2022-2023

Disposal Fees	\$ 14,651,255
Interest Income	\$ 5,000
Transfer from Contingency Reserve Fund	\$ -
Sale of Recyclable Material	\$ 125,000
Miscellaneous - Mulch	\$ 50,000
Miscellaneous Sales	\$ 24,900
	Total \$ 14,856,155

EXPENSES

Personnel

Administrative	\$ 949,829
Tinker Creek Transfer Station	\$ 939,211
Salem Transfer Station	\$ 645,911
Smith Gap	\$ 984,829

Totals \$ 3,519,781

Operating

Administrative	\$ 1,083,608
Tinker Creek Transfer Station	\$ 2,266,123
Salem Transfer Station	\$ 1,470,575
Smith Gap	\$ 2,290,449

Totals \$ 7,110,754

CAPITAL

Totals \$ -

RESERVES

Administrative	\$ -
Tinker Creek Transfer Station	\$ 185,439
Salem Transfer Station	\$ 82,014
Smith Gap	\$ 2,059,220

Totals \$ 2,326,674

DEBT SERVICE

Principal \$ 1,120,827

Interest \$ 778,119

Totals \$ 1,898,946 \$ 1,898,946

TOTALS

Administrative	\$ 2,033,437
Tinker Creek Transfer Station	\$ 3,390,774
Salem Transfer Station	\$ 2,198,500
Smith Gap	\$ 5,334,498
Debt Service	\$ 1,898,946

Total \$ 14,856,155

	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
REVENUE						
Disposal Fees	\$12,868,350	\$12,583,250	\$12,656,250	\$12,147,125	\$ 14,681,825	\$14,651,255
Interest Income	\$ 100,000	\$ 100,000	\$ 140,000	\$ 150,000	\$ 50,000	\$ 5,000
Transfer from Contingency Reserve Fund	\$ -	\$ 21,161	\$ 897,436	\$ 147,572	\$ -	\$ -
Sale of Recyclable Material	\$ 37,000	\$ 45,000	\$ 52,000	\$ 60,000	\$ 68,000	\$ 125,000
Mulch sales	\$ 40,000	\$ 42,000	\$ 42,000	\$ 45,000	\$ 50,000	\$ 50,000
Miscellaneous	\$ -	\$ -	\$ 46,000	\$ 47,900	\$ 24,900	\$ 24,900
TOTAL	\$13,045,350	\$12,791,411	\$13,833,686	\$12,597,597	\$ 14,874,725	\$14,856,155
EXPENSES						
Personnel	\$ 2,863,727	\$ 3,054,035	\$ 3,255,069	\$ 3,295,455	\$ 3,332,196	\$ 3,519,781
Operating	\$ 6,409,438	\$ 6,700,794	\$ 8,606,178	\$ 8,014,111	\$ 6,635,818	\$ 7,110,754
Capital	\$ -	\$ -	\$ 85,000	\$ -	\$ -	\$ -
Transfer to Reserves	\$ 2,360,000	\$ 1,760,000	\$ 610,000	\$ 10,000	\$ 3,122,725	\$ 2,326,674
Debt Service	\$ 1,412,185	\$ 1,276,582	\$ 1,277,439	\$ 1,278,031	\$ 1,783,986	\$ 1,898,946
TOTAL	\$13,045,350	\$12,791,411	\$13,833,686	\$12,597,597	\$ 14,874,725	\$14,856,155
DISPOSAL FEES						
Municipal \$ per ton	49.50	51.50	53.50	53.50	53.50	55.00
Private \$ per ton	59.50	61.50	61.50	62.75	62.75	64.50
% INCREASE in expenses	-2.2%	-1.9%	8.1%	-8.9%	18.1%	-0.1%

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION
9202	Total Tipping Fees	\$14,681,825	\$14,651,255	Based on tonnage receipts of : 211,150 Municipal 97,200 tons \$ 5,618,290 Commercial 64,550 tons \$ 4,206,675 Private 37,000 tons \$ 2,669,650 Residential 12,400 tons \$ 716,300 Contracted MSW 52,000 tons \$ 1,440,340 Total \$ 14,651,255
15100	Interest Income	\$ 50,000	\$ 5,000	Operating & Other Reserve \$ 5,000
40956	Transfer from Contingency Reserve Fund	\$ -	\$ -	Funds available from Contingency Reserve
16916	Sale of Recyclable Material	\$ 68,000	\$ 125,000	Sale of Recyclable Scrap Metal & Miscellaneous
18120	Mulch Revenue	\$ 50,000	\$ 50,000	Mulch Sales
18100	Miscellaneous Revenue	\$ 24,900	\$ 24,900	MVP Annual Easement Fee \$ 24,900 Misc. Use Fees \$ -
	TOTAL REVENUE	\$14,874,725	\$14,856,155	

TIPPING FEES

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION		
16906	City of Roanoke	\$ 2,304,300	\$ 2,370,500	Municipal Waste 41,000 tons @ 55.0 \$ 2,255,000 Wood Waste 2,900 tons @ 36 \$ 104,400 Tires 60 tons @ 185 \$ 11,100 - mixed @ 5 \$ -		
				City of Roanoke Total \$ 2,370,500		
16907	County of Roanoke	\$ 2,125,900	\$ 2,186,600	Municipal Waste 37,000 tons @ 55.0 \$ 2,035,000 Wood Waste 4,000 tons @ 36 \$ 144,000 Tires 40 tons @ 185 \$ 7,400 40 mixed @ 5 \$ 200		
				County of Roanoke Total \$ 2,186,600		
16908	Town of Vinton	\$ 176,100	\$ 181,040	Municipal Waste 3,200 tons @ 55.0 \$ 176,000 Wood Waste 140 tons @ 36 \$ 5,040 Tires - tons @ 185 \$ - - mixed @ 5 \$ -		
				Town of Vinton Total \$ 181,040		
16911	City Of Salem	\$ 856,150	\$ 880,150	Municipal Waste 16,000 tons @ 55.0 \$ 880,000 Wood Waste - tons @ 36 \$ - Tires - tons @ 185 \$ - 30 mixed @ 5 \$ 150		
				City of Salem Total \$ 880,150		

2022-2023 BUDGET

TIPPING FEES

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION			
16914	Commercial	\$ 3,423,825	\$ 4,206,675	Commercial Waste 64,550 tons @ 64.50 \$ 4,163,475 Wood Waste 1,000 tons @ 36 \$ 36,000 Tires 20 tons @ 185 \$ 3,700 700 mixed @ 5 \$ 3,500 Commercial Total \$ 4,206,675			
16914	Contracted Municipal Solid Waste	\$ 2,850,000	\$ 1,440,340	Contracted MSW 52,000 CW tons @ 27.3 \$ 1,419,340 500 RDS tons @ 42.0 \$ 21,000 Contracted MSW \$ 1,440,340			
16915	Private	\$ 2,248,650	\$ 2,669,650	Private Waste 37,000 tons @ 64.50 \$ 2,386,500 Wood Waste 3,400 tons @ 36 \$ 122,400 Tires 850 tons @ 185 \$ 157,250 700 mixed @ 5 \$ 3,500 Private Total \$ 2,669,650			
16917	Residential	\$ 696,900	\$ 716,300	Residential Waste Based on Uniform Disposal Allocation City of Roanoke 43.5% \$ 311,591 County of Roanoke 41.7% \$ 298,697 Town of Vinton 3.6% \$ 25,787 City of Salem 11.2% \$ 80,297 Household 12,400 Tons @ \$55.0 \$ 682,000 Wood waste 800 Tons @ \$36 \$ 28,800 Tires 1,100 Tires @ \$5 \$ 5,500 Residential Total \$ 716,300			
	TOTAL TIPPING FEES	\$14,681,825	\$14,651,255				

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION			
101010	Salaries	\$ 2,148,551	\$ 2,258,669	Salaries for	40	employees	
101015	Overtime	\$ 91,000	\$ 91,000	Extra work required on Saturdays, Weekdays & Holidays			
101020	Part - time	\$ 50,000	\$ 50,000	Operations, Buildings, and Grounds Maintenance			
101116	Supplements	\$ -	\$ -	Outstanding performance recognition			
202100	F.I.C.A.	\$ 175,323	\$ 183,575	7.65 %	of salaries, overtime, part time		
202200	Retirement - VRS	\$ 308,962	\$ 360,709	15.97 %	of salaries	40 employees \$ 2,258,669	
202840	Deferred Comp. Match	\$ 26,000	\$ 26,000	\$25	per pay period	40 employees	
202203	Retirement - VRS- Plan 2	\$ -	\$ -	15.97 %	of salaries	0 employees \$ -	
202205	Retirement - VRS- Hybrid	\$ -	\$ -	15.97 %	of salaries	0 employees \$ -	
202300	Hospitalization	\$ 307,515	\$ 319,905	40	participating employees	5.0% Annual \$	
				single	33	\$ 222,145	
				em&sp	2	\$ 20,526	
				family	3	\$ 38,667	
				Em & Ch	2	\$ 16,567	
				HRA		\$ 22,000	
				2 not participating but funded as single-wellness			
202310	Dental	\$ 16,800	\$ 17,760	40	participating employees @ \$37 per month		
202400	Life Insurance - VRS	\$ 28,791	\$ 30,266	1.34 %	of salaries	40 employees \$ 2,258,669	
202500	Long Term Disability Ins.	\$ 6,338	\$ 6,663	0.59%	salaries	RVRA pays 50% \$6,663	
202510	Short Term Disability Ins.	\$ 2,000	\$ 2,000		RVRA pays 100%		
202700	Workers' Comp. Ins.	\$ 49,243	\$ 60,482	Workers' Comp. Insurance			
202750	Retirement Health Insurance Credit	\$ 6,446	\$ 6,776	0.30 %	of salaries	40 employees \$ 2,258,669	
202800	Termination Pay	\$ 65,000	\$ 65,000	Flex Leave and Banked Sick Leave Payments			
202810	Cash-in FLP	\$ 47,401	\$ 37,974	Flexible Leave pay out			
202830	Employee Benefits	\$ 3,000	\$ 3,000	Retiree Health Insurance			
	TOTAL PERSONNEL	\$ 3,332,370	\$ 3,519,781				

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION		
101010	Salaries	\$ 555,987	\$ 651,398	Salaries for 6 employees		
101015	Overtime	\$ -	\$ -	Extra work required on Saturdays & Holidays		
101020	Part - time	\$ -	\$ -	Operations, Buildings, and Grounds Maintenance		
101116	Supplements	\$ -	\$ -	Outstanding performance recognition		
202100	F.I.C.A.	\$ 42,533	\$ 49,832	7.65 % of salaries, overtime, part time		
202200	Retirement - VRS	\$ 79,951	\$ 104,028	15.97 % of salaries	5 employees	\$ 651,398
202840	Deferred Comp. Match	\$ 3,250	\$ 3,900	\$25 per pay period	6 employees	
202203	Retirement - VRS- Plan 2	\$ -	\$ -	15.97 % of salaries	0 employees	\$ -
202205	Retirement - VRS- Hybrid	\$ -	\$ -	15.97 % of salaries	2 employees	\$ -
202300	Hospitalization	\$ 42,837	\$ 50,940	6 participating employees single 5 em&sp 0 family 1 Em & Ch 0	5.0% Annual \$ 33,551 \$ - \$ 12,889 \$ -	
				HRA		
				\$ 4,500		
202310	Dental	\$ 2,100	\$ 2,664	6 participating employees @	\$37 per month	
202400	Life Insurance - VRS	\$ 7,450	\$ 8,729	1.34 % of salaries	6 employees	\$ 651,398
202500	Long Term Disability Ins.	\$ 1,640	\$ 1,922	0.59% salaries	RVRA pays 50%	\$ 1,922
202510	Short Term Disability Ins.	\$ 250	\$ 300	RVRA pays 100%		
202700	Workers' Comp. Ins.	\$ 500	\$ 586	Workers' Comp. Insurance		
202750	Retirement Health Insurance Credit	\$ 1,668	\$ 1,954	0.30 % of salaries	6 employees	\$ 651,398
202800	Termination Pay	\$ 65,000	\$ 65,000	Annual and sick leave payments		
202810	Cash-in FLP	\$ 21,384	\$ 8,126	Flexible Leave pay out		
202830	Employee Benefits	\$ 375	\$ 450	Retiree Health Insurance		
	TOTAL PERSONNEL	\$ 824,925	\$ 949,829			

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION
101010	Salaries	\$ 454,706	\$ 577,138	Salaries for 12 employees
101015	Overtime	\$ 44,000	\$ 44,000	Extra work required on Saturdays, Evenings & Holidays
101020	Part - time	\$ 35,000	\$ 35,000	Operations, Buildings, and Grounds Maintenance
101116	Supplements	\$ -	\$ -	Outstanding performance recognition
202100	F.I.C.A.	\$ 40,829	\$ 50,195	7.65 % of salaries, overtime, part time
202200	Retirement - VRS	\$ 65,387	\$ 92,169	15.97 % of salaries 12 employees \$ 577,138
202840	Deferred Comp. Match	\$ 7,800	\$ 7,800	\$25 per pay period 12 employees
202203	Retirement - VRS- Plan 2	\$ -	\$ -	15.97 % of salaries 0 employees \$ -
202205	Retirement - VRS- Hybrid	\$ -	\$ -	15.97 % of salaries 0 employees \$ -
202300	Hospitalization	\$ 84,687	\$ 88,597	12 participating employees 5.0% Annual \$ single 11 \$ 73,813 em&sp 0 \$ - family \$ - Em & Ch 1 \$ 8,284 HRA \$ 6,500
202310	Dental	\$ 5,040	\$ 5,328	12 participating employees @ \$37 per month
202400	Life Insurance - VRS	\$ 6,093	\$ 7,734	1.34 % of salaries 12 employees \$ 577,138
202500	Long Term Disability Ins.	\$ 1,341	\$ 1,703	0.59% salaries RVRA pays 50% \$1,703
202510	Short Term Disability Ins.	\$ 600	\$ 600	RVRA pays 100%
202700	Workers' Comp. Ins.	\$ 13,983	\$ 20,442	Workers' Comp. Insurance 12 employees
202750	Retirement Health Insurance Credit	\$ 1,364	\$ 1,731	0.30 % of salaries 12 employees \$ 577,138
202800	Termination Pay	\$ -	\$ -	Annual and sick leave payments
202810	Cash-in FLP	\$ 11,112	\$ 5,876	Flexible Leave pay out
202830	Employee Benefits	\$ 900	\$ 900	Retiree Health Insurance
	TOTAL PERSONNEL	\$ 772,842	\$ 939,211	

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION		
101010	Salaries	\$ 443,992	\$ 403,479	Salaries for 8 employees		
101015	Overtime	\$ 22,000	\$ 22,000	Extra work required on Saturdays & Holidays		
101020	Part - time	\$ 5,000	\$ 5,000	Operations, Buildings, and Grounds Maintenance		
101116	Supplements	\$ -	\$ -	Outstanding performance recognition		
202100	F.I.C.A.	\$ 36,031	\$ 32,932	7.65 % of salaries, overtime, part time		
202200	Retirement - VRS	\$ 63,846	\$ 64,436	15.97 % of salaries	8 employees	\$ 403,479
202840	Deferred Comp. Match	\$ 4,550	\$ 5,200	\$25 per pay period	8 employees	
202203	Retirement - VRS- Plan 2	\$ -	\$ -	15.97 % of salaries	employees	\$ -
202205	Retirement - VRS- Hybrid	\$ -	\$ -	15.97 % of salaries	employees	\$ -
202300	Hospitalization	\$ 58,503	\$ 74,092	8 participating employees single 5 em&sp 1 family 2 Em & Ch 0 HRA	5.0% \$ 33,551 \$ 10,263 \$ 25,778 \$ - \$ 4,500	Annual \$
202310	Dental	\$ 2,940	\$ 3,552	8 participating employees @	\$37 per month	
202400	Life Insurance - VRS	\$ 5,949	\$ 5,407	1.34 % of salaries	8 employees	\$ 403,479
202500	Long Term Disability Ins.	\$ 1,310	\$ 1,190	0.59% salaries	RVRA pays 50%	\$ 1,190
202510	Short Term Disability Ins.	\$ 350	\$ 400		RVRA pays 100%	
202700	Workers' Comp. Ins.	\$ 11,106	\$ 15,453	Workers' Comp. Insurance	8 employees	
202750	Retirement Health Insurance Credit	\$ 1,332	\$ 1,210	0.30 % of salaries	8 employees	\$ 403,479
202800	Termination Pay	\$ -	\$ -	Annual and sick leave payments		
202810	Cash-in FLP	\$ 5,985	\$ 10,960	Flexible Leave pay out		
202830	Employee Benefits	\$ 525	\$ 600	Retiree Health Insurance		
	TOTAL PERSONNEL	\$ 663,419	\$ 645,911			

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION		
101010	Salaries	\$ 693,866	\$ 626,654	Salaries for 14 employees		
101015	Overtime	\$ 25,000	\$ 25,000	Extra work required on Saturdays & Holidays		
101020	Part - time	\$ 10,000	\$ 10,000	Operations, Buildings, and Grounds Maintenance		
101116	Supplements	\$ -	\$ -	Outstanding performance recognition		
202100	F.I.C.A.	\$ 55,758	\$ 50,617	7.65 % of salaries, overtime, part time		
202200	Retirement - VRS	\$ 99,778	\$ 100,077	15.97 % of salaries 14 employees \$ 626,654		
202840	Deferred Comp. Match	\$ 10,400	\$ 9,100	\$25 per pay period 14 employees		
202203	Retirement - VRS- Plan 2	\$ -	\$ -	15.97 % of salaries 0 employees \$ -		
202205	Retirement - VRS- Hybrid	\$ -	\$ -	15.97 % of salaries 0 employees \$ -		
202300	Hospitalization	\$ 121,488	\$ 106,276	14 participating employees 5.0% Annual \$ single 10 \$ 81,230 em&sp 1 \$ 10,263 family 0 \$ - Em & Ch 1 \$ 8,284 HRA \$ 6,500 2 Not participating		
202310	Dental	\$ 6,720	\$ 6,216	14 participating employees @ \$37 per month		
202400	Life Insurance - VRS	\$ 9,298	\$ 8,397	1.34 % of salaries 14 employees \$ 626,654		
202500	Long Term Disability Ins.	\$ 2,047	\$ 1,849	0.59% salaries RVRA pays 50% \$1,849		
202510	Short Term Disability Ins.	\$ 800	\$ 700	RVRA pays 100%		
202700	Workers' Comp. Ins.	\$ 23,652	\$ 24,001	Workers' Comp. Insurance 14 employees		
202750	Retirement Health Insurance Credit	\$ 2,082	\$ 1,880	0.30 % of salaries 14 employees \$ 626,654		
202800	Termination Pay	\$ -	\$ -	Annual and sick leave payments		
202810	Cash-in FLP	\$ 8,919	\$ 13,013	Flexible Leave pay out		
202830	Employee Benefits	\$ 1,200	\$ 1,050	Retiree Health Insurance		
TOTAL PERSONNEL		\$ 1,071,008	\$ 984,829			

CODE	DESCRIPTION	FY22-23	AD	TCTS	STS	SG
101010	Salaries	\$ 2,258,669	\$ 651,398	\$ 577,138	\$ 403,479	\$ 626,654
101015	Overtime	\$ 91,000	\$ -	\$ 44,000	\$ 22,000	\$ 25,000
101020	Part - time	\$ 50,000	\$ -	\$ 35,000	\$ 5,000	\$ 10,000
101116	Supplements	\$ -	\$ -	\$ -	\$ -	\$ -
202100	F.I.C.A.	\$ 183,575	\$ 49,832	\$ 50,195	\$ 32,932	\$ 50,617
202200	Retirement - VRS	\$ 360,709	\$ 104,028	\$ 92,169	\$ 64,436	\$ 100,077
202840	Deferred Comp. Match	\$ 26,000	\$ 3,900	\$ 7,800	\$ 5,200	\$ 9,100
202203	Retirement - VRS Plan 2	\$ -	\$ -	\$ -	\$ -	\$ -
202205	Retirement - VRS Hybrid	\$ -	\$ -	\$ -	\$ -	\$ -
202300	Hospitalization	\$ 319,905	\$ 50,940	\$ 88,597	\$ 74,092	\$ 106,276
202310	Dental	\$ 17,760	\$ 2,664	\$ 5,328	\$ 3,552	\$ 6,216
202400	Life Insurance - VRS	\$ 30,266	\$ 8,729	\$ 7,734	\$ 5,407	\$ 8,397
202500	Long Term Disability Ins.	\$ 6,663	\$ 1,922	\$ 1,703	\$ 1,190	\$ 1,849
202510	Short Term Disability Ins.	\$ 2,000	\$ 300	\$ 600	\$ 400	\$ 700
202700	Workers' Comp. Ins.	\$ 60,482	\$ 586	\$ 20,442	\$ 15,453	\$ 24,001
202750	Retirement Health Insurance Credit	\$ 6,776	\$ 1,954	\$ 1,731	\$ 1,210	\$ 1,880
202800	Termination Pay	\$ 65,000	\$ 65,000	\$ -	\$ -	\$ -
202810	Cash-in FLP	\$ 37,974	\$ 8,126	\$ 5,876	\$ 10,960	\$ 13,013
202830	Employee Benefits	\$ 3,000	\$ 450	\$ 900	\$ 600	\$ 1,050
	TOTAL PERSONNEL	\$ 3,519,781	\$ 949,829	\$ 939,211	\$ 645,911	\$ 984,829

PERSONNEL

POSITION	#	GRADE	CURRENT PAY RANGE					
CEO	1	U	Unclassified					
Director of Operations Technical Services	1	37	\$	82,554	to	\$	131,261	
Director of Operation Field Services	1	37	\$	82,554	to	\$	131,261	
Finance Manager	1	36	\$	78,623	to	\$	125,011	
Business Manager	1	30	\$	58,670	to	\$	93,285	
Operations Manager	4	27	\$	50,681	to	\$	80,583	
Administrative Coordinator	1	25	\$	45,969	to	\$	73,091	
Facilities Technician	1	23	\$	41,696	to	\$	66,296	
Operations Supervisor	4	23	\$	41,696	to	\$	66,296	
Senior Equipment Operator	3	22	\$	39,710	to	\$	63,139	
Motor Equipment Operator II	15	19	\$	34,303	to	\$	54,542	
Scale Operator	3	19	\$	34,303	to	\$	54,542	
Motor Equipment Operator I	4	17	\$	31,114	to	\$	49,471	
Laborer / Operator	0	13	\$	25,597	to	\$	40,700	
TOTAL SALARIES	40			\$ 2,124,747			1/15/2022	
Average Adjustments (6%):								
Mid-point \$2,240,860			Performance Increases	\$ 42,495				
			Mid-point Adjustments	\$ 44,817				
			Average Adjustment/Promotions	\$ 46,610				
			Total	\$ 133,922				
TOTAL ADJUSTED SALARIES				\$ 2,258,669				

2022-2023 BUDGET

EMPLOYEE BY LOCATION

POSITION	#	GRADE	ADMIN.	TINKER	SALEM	LANDFILL
CEO	1	U	1	0	0	0
Director of Operations Technical Services	1	37	1	0	0	0
Director of Operation Field Services	1	37	1	0	0	0
Finance Manager	1	36	1	0	0	0
Business Manager	1	30	1	0	0	0
Operations Manager	4	27	0	2	1	1
Administrative Coordinator	1	25	1	0	0	0
Facilities Technician	1	23	0	1	0	0
Operations Supervisor	4	23	0	2	1	1
Senior Equipment Operator	3	22	0	1	1	1
Motor Equipment Operator II	15	19	0	3	5	7
Scale Operator	3	19	0	2	1	0
Motor Equipment Operator I	4	17	0	0	0	4
Laborer/Operator	0	13	0	0	0	0
TOTAL EMPLOYEES	40		6	10	9	14

2022 - 2023 BUDGET

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION
300004	Medical Exams	\$ 2,000	\$ 2,000	Physical exams for new employees; drug and alcohol random testing, more testing
300007	Contract Services	\$ 601,452	\$ 616,677	Employee Assistance Program: <u>\$17.00 @ x 40</u> employees \$ 680 Clean Valley Council-Annual \$ 61,000 Landscaping- \$438/month \$ 5,355 Tire Disposal - <u>870</u> Tons @ <u>\$154.00 + Fuel Surcharge</u> \$ 133,980 Copier Rental <u>\$790.00 /Month</u> \$ 9,480 HHW Disposal \$ 66,950 Janitorial Services \$ 46,350 Exterminating Services \$ 2,781 Cap Maintenance - mowing \$ 25,750 Leachate Disposal (RR) \$ 30,900 Trucking Tires \$ 31,859 Salem Bond Debt \$ 201,592
300100	Groundwater Sampling and Analysis -SG & RR	\$ 147,032	\$ 151,730	Residential Drinking Water Sampling <u>24 @ \$700</u> \$ 16,800 Detection Monitoring-Lab \$ 3,090 ACM Monitoring - Lab \$ 41,200 Engineering \$ 90,640
300102	Stormwater Sampling & Analysis-SG & TCTS	\$ 73,500	\$ 75,705	*Permit Sampling Engineering (PCB added) \$ 50,470 Laboratory \$ 25,235
300103	Landfill Gas Monitoring - SG & RR	\$ 117,400	\$ 120,922	SG - Monthly & Quarterly \$ 50,676 SG Reporting \$ 36,256 RR- Monthly @ \$2,000 \$ 22,660 RR Reporting \$ 11,330
300013	Professional Services	\$ 53,500	\$ 55,105	Engineering \$ 18,540 Leachate sampling \$ 5,150 Auditing Services \$ 16,995 Software support \$ 14,420
300017	Legal Services	\$ 44,000	\$ 45,320	General Counsel \$ 41,200 Outside Legal \$ 4,120
300029	Transportation to Smith Gap - Trailers	\$ 2,364,186	\$ 2,552,901	Trucking tons shipped 21 tons/trailer = 10,054 211,150 2.0 % Rate Incr. Total \$ 2,552,901

CODE	DESCRIPTION	FY22-23	JUSTIFICATION	ADMIN	TCTS	STS	LANDFILL
300004	Medical Exams	\$ 2,000	Physical exams for new employees; drug and alcohol random testing	\$ 2,000	\$ -	\$ -	\$ -
300007	Contract Services	\$ 615,927	Employee Assistance Program: \$17.00 @ x 40 employees Clean Valley Council 12 months Landscaping- \$438/month Tire Disposal Copier Rental HHW Disposal Janitorial Services Exterminating Services Cap Maintenance -Bush Hog Leachate Disposal (RR) Trucking Tires Salem Bond Debt	\$ 680 \$ 61,000 \$ 5,355 \$ 133,980 \$ 9,480 \$ 66,950 \$ 46,350 \$ 2,781 \$ 25,000 \$ 30,900 \$ 31,859 \$ 201,592	\$ 680 \$ 61,000 \$ 5,355 \$ - \$ 9,480 \$ 66,950 \$ 4,200 \$ - \$ 25,000 \$ 30,900 \$ - \$ 31,859 \$ 201,592	\$ - \$ - \$ - \$ 133,980 \$ - \$ - \$ 8,400 \$ 1,800 \$ - \$ - \$ 6,300 \$ 500 \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ - \$ 27,450 \$ 481 \$ - \$ - \$ - \$ - \$ - \$ -
300100	Groundwater Sampling & Analysis SG & RR	\$ 151,730	Residential Drinking Water Sampling Detection Monitoring & Lab ACM Monitoring - Lab & Engineering	\$ 16,800 \$ 3,090 \$ 41,200 \$ 90,640	\$ - \$ - \$ 41,200 \$ 62,000	\$ - \$ - \$ - \$ -	\$ 16,800 \$ 3,090 \$ - \$ 28,640
300102	Stormwater Sampling & Analysis	\$ 75,705	*Permit Sampling Engineering (PCB added) Laboratory	\$ 50,470 \$ 25,235	\$ - \$ -	\$ 2,500 \$ 1,500	\$ - \$ 47,970 \$ 23,735
300103	Landfill Gas Monitoring - SG & RR	\$ 120,922	SG - Monthly & Quarterly SG Reporting RR- Monthly @ \$2,000 RR Reporting	\$ 50,676 \$ 36,256 \$ 22,660 \$ 11,330	\$ - \$ - \$ 22,660 \$ 11,330	\$ - \$ - \$ - \$ -	\$ 50,676 \$ 36,256 \$ - \$ -
300013	Professional Services	\$ 55,105	Engineering Leachate sampling Auditing Services Software support	\$ 18,540 \$ 5,150 \$ 16,995 \$ 14,420	\$ - \$ 2,000 \$ - \$ 14,420	\$ - \$ - \$ - \$ -	\$ 18,540 \$ 3,150 \$ - \$ -
300017	Legal Services	\$ 45,320	General Counsel Outside Legal	\$ 41,200 \$ 4,120	\$ 41,200 \$ 4,120	\$ - \$ -	\$ - \$ -
300029	Transportation & Landfill	\$ 2,552,901	Total Tons to be Landfilled 21 tons/trailer = 10,054	211,150	\$ -	\$ 1,474,344	\$ 1,078,557

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION
300030	Waste Water Transportation	\$ 421,759	\$ 478,502	Leachate Trailers 1,778 trls / 12,446,000 Gal. \$ 478,502
300035		\$ -	\$ -	
310001	Temporary Help	\$ -	\$ -	Buildings and Grounds Maintenance
320001	Contracted Repairs	\$ 478,500	\$ 588,500	On Road Vehicles \$ 18,500 Construction Equipment Off Road Vehicles \$ 510,000 Miscellaneous Equip. Includes Tub Grinder Trailers, hydroseeder Mowers, truck scales
380380	Building Maintenance and Grounds	\$ 170,000	\$ 170,000	Maintenance and repairs to all buildings and property; pump stations, septic & leachate tanks.
350010	Printed Forms	\$ 5,100	\$ 5,100	Letterhead, envelopes, cards, scale tickets repair orders, purchasing forms includes General Counsel
360010	Advertising	\$ 8,850	\$ 8,850	RFP, bids, public hearings: \$ 8,000 etc. Handouts \$ 150 User Brochures \$ 400 HHW Brochures \$ 200 Miscellaneous \$ 100

CODE	DESCRIPTION	FY22-23	JUSTIFICATION	ADMIN	TCTS	STS	LANDFILL
300030	Waste Water Freight	\$ 478,502	Leachate Cars 1,778 trls / 12,446,000 Gal.	\$ -	\$ -	\$ -	\$ 478,502
300035		\$ -	0	\$ -	\$ -	\$ -	\$ -
310001	Temporary Help	\$ -	Buildings & Grounds Maintenance	\$ -	\$ -	\$ -	\$ -
320001	Contracted Repairs	\$ 588,500	All road vehicles Construction Equipment Off Road Vehicles Miscellaneous Equip. 0 Sub-Totals	\$ 18,500 \$ - \$ - \$ - \$ 18,500	\$ - \$ 160,000 \$ 20,000 \$ - \$ 180,000	\$ - \$ 50,000 \$ 10,000 \$ - \$ 60,000	\$ - \$ 300,000 \$ 30,000 \$ - \$ 330,000
380380	Building Maintenance and Grounds	\$ 170,000	Maintenance & repairs to all buildings and property; pump station, septic & leachate tanks	\$ 24,000	\$ 44,000	\$ 24,000	\$ 78,000
350010	Printed Forms	\$ 5,100	Letterhead, envelopes, cards, scale tickets, etc. includes General Counsel	\$ 5,100	\$ -	\$ -	\$ -
360010	Advertising	\$ 8,850	RFP, bids, public hearings, etc. Handouts User Brochures HHW Brochures Miscellaneous	\$ 8,000 \$ 150 \$ 400 \$ 200 \$ 100	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -

OPERATING

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION
360001	Marketing activities	\$ 400	\$ 400	Recycling handouts, pens, pencils, miscellaneous items
360030	Special Events	\$ 6,500	\$ 6,500	Annual Employee Functions & Customer Appreciation Day
400600	Central Services	\$ 72,000	\$ 75,600	Administrative services, Roanoke County/Roanoke City for data processing, IT Support accounting, web updates, miscellaneous
510010	Electric	\$ 100,200	\$ 100,200	RTS \$2,250/month SGRL \$3,500/month STS \$2,000/month RRLF \$600/month
510021	Heating Services	\$ 2,000	\$ 2,000	Transfer Station Natural Gas
510022	Fuel Oil Natural & Bottled Gas	\$ 20,000	\$ 20,000	Propane Gas Smith Gap Landfill
510041	Water Service - Transfer Station	\$ 15,000	\$ 15,000	Water & Sewer Service for Transfer Stations
510042	Sewer Service - leachate	\$ 83,175	\$ 67,476	Sewer Service - leachate Smith Gap 16,869,030 Gallons \$4.00 /1000 gal - WVWA Fee
520010	Postage	\$ 4,800	\$ 4,800	Postage for all mailings and correspondence, postage meter rent, includes General Counsel
520030	Telephone	\$ 5,200	\$ 5,200	Telephone service at all facilities, long distance calls, & credit card processing
520033	Internet Lines	\$ 16,740	\$ 16,740	Fees for internet service @ Smith Gap Landfill, and Both Transfer Stations
520035	Cell Phones	\$ 10,000	\$ 10,000	Service for cell phones

CODE	DESCRIPTION	FY22-23	JUSTIFICATION	ADMIN	TCTS	STS	LANDFILL
360001	Marketing Activities	\$ 400	Recycling handouts, pens, pencils, miscellaneous items	\$ 400	\$ -	\$ -	\$ -
360030	Special Events	\$ 6,500	Annual Employee Functions & Customer Appreciation Day	\$ 6,500	\$ -	\$ -	\$ -
400600	Central Services	\$ 75,600	Administrative services, Roanoke County/Roanoke City for data processing, accounting, web update, misc.	\$ 75,600	\$ -	\$ -	\$ -
510010	Utilities - Electricity	\$ 100,200	TCTS \$2,250/month SGRLF \$3,500/month STS \$2,000/month RRLF \$600/month	\$ 7,200	\$ 27,000	\$ 24,000	\$ 42,000
510021	Heating Services	\$ 2,000	Transfer Station Natural Gas	\$ -	\$ 2,000	\$ -	\$ -
510022	Fuel Oil Natural & Bottled Gas	\$ 20,000	Smith Gap Landfill Propane Gas	\$ -	\$ -	\$ -	\$ 20,000
510041	Water Service - Transfer Station	\$ 15,000	Water & Sewer Service for Transfer Stations	\$ -	\$ 8,000	\$ 7,000	\$ -
510042	Sewer Service	\$ 67,476	Sewer Service (leachate) Smith Gap & Rutrough	\$ 17,692	\$ -	\$ -	\$ 49,784
520010	Postage	\$ 4,800	Postage for all mailings and correspondence, postage meter rent, includes General Counsel	\$ 4,800	\$ -	\$ -	\$ -
520030	Telephone	\$ 5,200	Telephone Service	\$ 5,200	\$ -	\$ -	\$ -
520033	Internet Lines	\$ 16,740	Fees for internet service	\$ 5,700	\$ -	\$ 5,520	\$ 5,520
520035	Cell Phones	\$ 10,000	Service for cell phones	\$ 10,000	\$ -	\$ -	\$ -

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION
530002	Property Insurance-Fire	\$ 31,500	\$ 33,075	Coverage for all buildings, contents, and equipment
530005	Motor Vehicle Insurance	\$ 33,750	\$ 36,304	Insurance for on-road vehicles
530007	Public Officials Insurance	\$ 2,100	\$ 2,205	Insurance through VML or VACO pools
530008	General Liability Ins.	\$ 8,950	\$ 9,398	Coverage for all facilities & property
540010	Rent of Equipment	\$ 80,000	\$ 80,000	Rental of Miscellaneous Equipment
550001	Travel - Mileage	\$ 500	\$ 500	Use of personal vehicles for RVRA business, staff, and Board Members
550020	Dinner Meetings - Luncheons	\$ 4,500	\$ 4,500	Monthly Board meetings, dinners & luncheons associated with RVRA
550040	Travel and Lodging, Conference, Training and Education	\$ 24,400	\$ 24,400	Conference registrations; \$ 6,000 SWANA, VML, legal conferences Subsistence & Lodging \$ 10,000 Operator training for hazardous materials, certifications & educations \$ 8,400
560001	Contributions	\$ 657,000	\$ 657,000	Payments per contract to: Roanoke County \$ 350,000 Roanoke City \$ 150,000 Salem City \$ 150,000 Town of Vinton \$ 5,000 Volunteer fire and rescue \$ 2,000

CODE	DESCRIPTION	FY22-23	JUSTIFICATION	ADMIN	TCTS	STS	LANDFILL
530002	Property Insurance-Fire	\$ 33,075	Coverage for all buildings, contents, and equipment	\$ 33,075	\$ -	\$ -	\$ -
530005	Motor Vehicle Ins.	\$ 36,304	Insurance for on-road vehicles	\$ 36,304	\$ -	\$ -	\$ -
530007	Public Officials Ins.	\$ 2,205	Insurance through VML pools	\$ 2,205	\$ -	\$ -	\$ -
530008	General Liability Ins.	\$ 9,398	Coverage for all facilities & property	\$ 9,398	\$ -	\$ -	\$ -
540010	Rent of Equipment	\$ 80,000	Rental of Miscellaneous Equipment Heavy Equipment Emergency Equipment	\$ -	\$ 10,000	\$ 2,500	\$ 67,500
550001	Travel - Mileage	\$ 500	Use of personal vehicles for RVRA business, staff, and Board Members	\$ 500	\$ -	\$ -	\$ -
550020	Dinner Meetings - Luncheons	\$ 4,500	Monthly Board meetings, dinners & luncheons associated with RVRA	\$ 4,500	\$ -	\$ -	\$ -
550040	Travel - Lodging	\$ 24,400	Conference registrations; SWANA, VML, legal conferences \$ 6,000	\$ 6,000	\$ -	\$ -	\$ -
			Subsistence & Lodging \$ 10,000	\$ 10,000	\$ -	\$ -	\$ -
			Operator training for hazardous materials, certification, misc. \$ 8,400	\$ 8,400	\$ -	\$ -	\$ -
560001	Contributions	\$ 657,000	Payments per contract to: Roanoke County \$ 350,000 Roanoke City \$ 150,000 Salem City \$ 150,000 Town of Vinton \$ 5,000 Volunteer fire & rescue \$ 2,000	\$ 5,000	\$ 150,000	\$ 150,000	\$ 352,000

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION
580001	Dues	\$ 3,200	\$ 3,200	Professional & Association dues: SWANA, SWVSWMA, & IAAP
580015	Warrants and Fees	\$ 89,750	\$ 142,958	DEQ & City SW annual fees -\$116,958 Credit Card fees \$26,000
580023	Employee Recognition	\$ 7,000	\$ 7,000	Awards and Certificates
601010	Office Supplies	\$ 5,200	\$ 5,200	Office paper, pens, pencils, folders, etc.
601011				
601013	Small Equipment & Supplies	\$ 75,000	\$ 75,000	Items of office and shop equipment and supplies, tools, computers, lawn mowers, etc.
604040	Medical Supplies	\$ 1,000	\$ 1,000	Supplies for first aid kits & medicine cabinet
605050	Janitorial Supplies	\$ 7,000	\$ 7,000	Supplies for general cleaning & sanitation
607071	Radio Parts	\$ 13,000	\$ 13,000	Communications Equipment & Fees
608080	Gasoline, Oil & Grease	\$ 49,200	\$ 59,200	Fuel for all RVRA vehicles, mowers, lubricants
608082	Diesel fuel	\$ 350,000	\$ 350,000	Fuel for all diesel equipment and vehicles
609094	Tires, Tubes, Parts	\$ 100,000	\$ 130,000	Replacement and maintenance parts & supplies for all equipment and vehicles
611030	Uniform and Wearing Apparel	\$ 34,050	\$ 34,050	Safety Shoes & Jeans \$ 11,050 Rain gear, shirts, hats, misc. \$ 11,500 Purchase of uniforms \$ 11,500

CODE	DESCRIPTION	FY22-23	JUSTIFICATION	ADMIN	TCTS	STS	LANDFILL
580001	Dues	\$ 3,200	Professional & Association dues: SWANA, SWVSWMA, & IAAP	\$ 3,200	\$ -	\$ -	\$ -
580015	Warrants and Fees	\$ 142,958	DEQ & City SW annual fees -\$116,958 Credit Card fees \$26,000	\$ 33,500	\$ 6,500	\$ 6,500	\$ 96,458
580023	Employee Recognition	\$ 7,000	Awards and Certificates	\$ 7,000	\$ -	\$ -	\$ -
601010	Office Supplies	\$ 5,200	Office paper, pens, pencils, folders, etc.	\$ 5,200	\$ -	\$ -	\$ -
601011		\$ -		\$ -	\$ -	\$ -	\$ -
601013	Small Equipment & Supplies	\$ 75,000	Items of office and shop equipment and supplies, tools, computers	\$ 20,000	\$ 23,000	\$ 8,000	\$ 24,000
604040	Medical Supplies	\$ 1,000	Supplies for first aid kits & medicine cabinets	\$ 1,000	\$ -	\$ -	\$ -
605050	Janitorial Supplies	\$ 7,000	Supplies for general cleaning & sanitation	\$ -	\$ 1,500	\$ 1,500	\$ 4,000
607071	Radio Parts	\$ 13,000	Communications Equipment & Fees	\$ -	\$ 2,000	\$ 2,000	\$ 9,000
608080	Gasoline, Oil & Greas	\$ 59,200	Fuel for all RVRA vehicles, mowers, lubr	\$ 40,000	\$ 2,200	\$ 2,000	\$ 15,000
608082	Diesel fuel	\$ 350,000	Fuel for all diesel equipment	\$ -	\$ 70,000	\$ 20,000	\$ 260,000
609094	Tires, Tubes, & Parts	\$ 130,000	Replacement and maintenance parts supplies for all equipment and vehicles	\$ 6,000	\$ 42,000	\$ 42,000	\$ 40,000
611030	Uniform & Wearing Apparel	\$ 34,050	Safety Shoes & Jeans Rain gear, shirts, hats, misc. Purchase of uniforms	\$ 325 \$ 3,500 \$ 1,500	\$ 4,018 \$ 2,909 \$ 3,636	\$ 2,679 \$ 1,939 \$ 2,424	\$ 4,028 \$ 3,152 \$ 3,939
			Totals	\$ 5,325	\$ 10,564	\$ 7,042	\$ 11,119

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION
620001	Subscriptions/Books	\$ 500	\$ 500	Professional magazines and manuals
650001	Other Operating Supplies	\$ 145,000	\$ 145,000	Disinfectants, deodorizers, salt for roads, gravel and stone for roads, seed, mulch fertilizers and lime for seeding slopes, fill areas and other areas, miscellaneous expenses
650003	Fire Equipment and Supplies	\$ 4,000	\$ 4,000	Fire hoses & extinguishers replacements & and for annual inspections for all facilities
650010	Safety Equipment	\$ 4,000	\$ 4,000	Dust mask, safety glasses, etc.
967070	Unappropriated Balance	\$ 81,924	\$ 87,796	For unexpected expenditures 1.25%
TOTAL OPERATING		\$ 6,635,817	\$ 7,111,514	

OPERATING

CODE	DESCRIPTION	FY22-23	JUSTIFICATION	ADMIN	TCTS	STS	LANDFILL
620001	Subscriptions /Books	\$ 500	Professional magazines and manuals	\$ 500	\$ -	\$ -	\$ -
650001	Other Operating Supplies	\$ 145,000	Disinfectants, deodorizers, sa gravel for roads, seed, mulch fertilizers & lime for seeding slopes, fill areas & other areas, miscellaneous expenses	\$ 12,500	\$ 5,000	\$ 5,000	\$ 122,500
650003	Fire Equipment & Supplies	\$ 4,000	Fire hoses & extinguishers replacements & and for annual inspections for all facilities	\$ 4,000	\$ -	\$ -	\$ -
650010	Safety Equipment	\$ 4,000	Dust mask, safety glasses, etc.	\$ 4,000	\$ -	\$ -	\$ -
	Sub-totals	\$ 153,500		\$ 21,000	\$ 5,000	\$ 5,000	\$ 122,500
	Sub-Totals 14-24	\$ 7,023,717		\$ 1,070,230	\$ 2,238,146	\$ 1,452,420	\$ 2,262,171
967070	Unappropriated Balance	\$ 87,796		\$ 13,378	\$ 27,977	\$ 18,155	\$ 28,277
	TOTAL OPERATING	\$ 7,111,514		\$ 1,083,608	\$ 2,266,123	\$ 1,470,575	\$ 2,290,449

CODE	DESCRIPTION	FY21-22	FY22-23	JUSTIFICATION
810001	Machinery & Equipment New	\$ -	\$ -	Nothing Planned
810002	Machinery & Equipment Replacement	\$ -	\$ -	Nothing Planned
820001	Furniture, Office Equipment New	\$ -	\$ -	Nothing Planned
830001	Communications Equipment New	\$ -		Nothing Planned
810001	Small Capital Outlay New	\$ -	\$ -	Nothing Planned
870001	Technology Equipment - New	\$ -	\$ -	Nothing Planned
870650	Computers Equipment Replacement	\$ -	\$ -	Nothing Planned
870005	Computer Server	\$ -	\$ -	Nothing Planned
890002	New Building	\$ -	\$ -	Nothing Planned
	TOTAL CAPITAL	\$ -	\$ -	

CODE	DESCRIPTION	BALANCE 7/1/2022 (projected)	DEPOSIT FY22-23	EXPENSE FY22-23	BALANCE 06/30/23 (projected)	JUSTIFICATION
C846 9209	Landfill Closure	\$ 4,397,370	\$ -	\$ 2,518,263	\$ 1,879,107	As required by State and Federal Regulations to close Smith Gap Landfill
C847 9210	Equipment Reserve Fund	\$ 1,532,000	\$ 430,295	\$ 1,958,000	\$ 4,295	For replacement of equipment per equipment replacement schedule.
C847 9211	Groundwater Protection Fund	\$ 500,000	\$ -	\$ -	\$ 500,000	Groundwater protection fund per local permit.
C847 9212	Landfill Host Community Improvement Fund	\$ 239,475	\$ 10,000	\$ -	\$ 249,475	As per local permit. Intranet/property
C847 9213	Property Value Protection	\$ 370,430	\$ -	\$ -	\$ 370,430	As per local permit. Current fund is adequate based on anticipated sales.
C848 9214	Future Site Development	\$ 3,714,583	\$ 1,796,379	\$ 6,574,270	\$ (1,063,308)	For future construction of the landfill
C848 9215	Capital Improvement Fund	\$ 61,082	\$ 90,000	\$ 50,000	\$ 101,082	For maintenance and improvements to the facilities.
C840 9201	Contingency Reserve Fund	\$ 1,483,939	\$ -	\$ -	\$ 1,483,939	For unexpected expenses and for tipping fee stabilization
TOTAL RESERVE FUNDS		\$12,298,879	\$ 2,326,674	\$ 11,100,533	\$ 3,525,020	

CODE	DESCRIPTION	JUSTIFICATION	DEPOSIT FY22-23	ADMIN	TCTS	STS	LANDFILL
C846 9209	Landfill Closure	As required by State and Federal regulations to close Smith Gap Regional Landfill	\$ -	\$ -	\$ -	\$ -	\$ -
C847 9210	Equipment Reserve Fund	For replacement of equipment per equipment replacement schedule.	\$ 430,295	\$ -	\$ 95,439	\$ 82,014	\$ 252,841
C847 9211	Groundwater Protection Fund	Groundwater protection fund per local permit.	\$ -	\$ -	\$ -	\$ -	\$ -
C847 9212	Landfill Host Community Improvement Fund	As per local permit, intranet/property	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000
C847 9213	Property Value Protection	As per local permit. Current fund is adequate based on anticipated sales.	\$ -	\$ -	\$ -	\$ -	\$ -
C848 9214	Future Site Development	For future construction of the landfill	\$ 1,796,379	\$ -	\$ -	\$ -	#####
C848 9215	Capital Improvement Fund	For maintenance and improvements to the facilities.	\$ 90,000	\$ -	\$ 90,000	\$ -	\$ -
C840 9201	Contingency Reserve Fund	For unexpected expenses and for tipping fee stabilization	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL RESERVE FUNDS			\$ 2,326,674	\$ -	\$ 185,439	\$ 82,014	\$2,059,220

**TIPPING FEE
BREAKDOWN**

ALL OPERATIONS

CATEGORY	ADMIN	TCTS	STS	LANDFILL	TOTAL	PERCENT
PERSONNEL	\$ 949,829	\$ 939,211	\$ 645,911	\$ 984,829	\$ 3,519,781	24%
OPERATIONS	\$ 1,083,608	\$ 2,266,123	\$ 1,470,575	\$ 2,290,449	\$ 7,110,754	48%
DEPOSITS AND RESERVES	\$ -	\$ 185,439	\$ 82,014	\$ 2,059,220	\$ 2,326,674	16%
DEBT SERVICE	\$ 1,898,946	\$ -	\$ -	\$ -	\$ 1,898,946	13%
TOTAL	\$ 3,932,383	\$ 3,390,774	\$ 2,198,500	\$ 5,334,498	\$ 14,856,155	100%
PERCENTAGE	26%	23%	15%	36%	100%	

RESERVE FUNDS

2022-2023



SMITH GAP LANDFILL

RESERVE FUNDS

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ROANOKE VALLEY RESOURCE AUTHORITY

FINANCIAL AND RESERVES

POLICY

I. Background

The Authority recognizes one of the keys to sound financial management is the development of a systematic way to fund planned capital projects and on-going maintenance programs. The Authority believes it is equally important to establish the planned expenditures of associated funding for its capital projects and maintenance programs on a pay-as-you-go basis whenever possible. The National Advisory Council on State and Local Budgeting (NACSLB) has issued guidelines representing standards of excellence in governmental budgeting that include the preparation of policies and plans for capital asset acquisition, maintenance, and replacement (Principle 2; Element 5; Practice 5.2). This policy addresses this standard.

II. Purpose

This policy will provide for the establishment and the planned funding level of maintenance and improvement reserve accounts for planned expenditures over a short-term planning period of five (5) years and a long-term planning period of ten (10+) years or more. Each individual account provides for a separate funding purpose to be designated as either "restricted" or "unrestricted" accounts. Restricted accounts must be used solely for their intended purpose as required by regulatory statute, contractual obligation, or operating permit conditions. Unrestricted funds are intended for planned capital and maintenance purposes, but may be periodically used by the Authority temporarily, for not more than six (6) months, to provide emergency funding for the Authority's operations, if needed. Reserve Accounts may be utilized to fund the same or separate projects as deemed necessary for supporting the mission of providing quality programs and facilities necessary to serve the Authority's Member Communities of Roanoke County, the City of Roanoke, the City of Salem, the Town of Vinton and their residents and businesses of the Roanoke Valley.

III. Policy Guidelines for Reserve Fund Accounts

- A. The Authority will maintain reserve accounts and an initial beginning balance of funds will be deposited into accounts as identified for the current fiscal year.
- B. Annual funding transfers to restricted accounts, if deemed necessary, will occur in twelve (12) equal monthly transfers from revenues received by the Authority and as budgeted for the current fiscal year. Annual funding transfers to unrestricted accounts may occur in twelve (12) equal monthly transfers or lump sum transfers, as directed by the Board, from revenues received by the Authority and as budgeted for the current fiscal year.

- C. Ongoing expenditures from the funds will occur as budgeted for the current fiscal year as costs are accrued.
- D. Planned deposits to the funds are calculated sufficient to maintain the desired fund balances with a positive fund balance, at a minimum, for any given fiscal year during the long-term planning period.
- E. Planned expenditures of the funds are calculated sufficient to provide cash funding for all planned capital projects and maintenance projects for any given fiscal year during the long-term planning period.
- F. Any end of year operating surplus and/or interest earnings may be allocated to one or more account, as determined by the Authority's Board of Directors.
- G. An internal review of the account allocations and funding levels by a professional engineer familiar with best management practices of solid waste operations and facilities will occur annually to ensure the priorities are consistent with the goals of the Authority and to ensure the funding levels are adequate.
- H. An external third party review of the account allocations and funding levels by a professional engineer familiar with best management practices of solid waste operations and facilities, will occur every five (5) years to ensure the funding levels are adequate. Draper Aden Associates (DAA) last completed an external assessment of the Reserve Accounts in FY 2018. Therefore, DAA was again retained to conduct a review of the Authority's Reserves and develop a report, as stipulated in the Policy, which is included this year as part of the FY 2022-2023 Budget.

IV. Account Definitions

The **Landfill Closure Fund** (*Unrestricted*) provides a reserve for the costs of capping completed areas of the landfill and at the end of the landfill's useful life, to completely close any remaining area, install all monitoring and collection systems and perform all post-closure care activities per regulatory requirements.

The **Equipment Replacement Fund** (*Unrestricted*) provides funds for the future purchases, regularly scheduled replacement of major operating equipment, and any uninsured risk, in an orderly fashion as to minimize annual operating costs, maximize any trade-in or surplus value, and to provide for the best overall purchasing value.

The **Ground Water Protection Fund** (*Restricted*) provides funds to address any environmental effects the operation of the landfill may have on the surrounding area. The fund also serves to assist in complying with post closure and corrective action requirements of state and federal financial assurance regulations.

The **Host Community Fund** (*Restricted*) provides funds for the construction and maintenance of public improvements to Authority property within the Host Community, as requested by the Host Community, and as approved in a formal public improvement plan.

The **Property Protection Fund** (*Restricted*) provides funds for the one-time payments under the Property Protection Policy to property owners within the Host Community for any actual realized

decline in property values as a result of their relatively close proximity to the Smith Gap Regional Landfill.

The **Site Development Fund** (*Unrestricted*) provides funds for the construction of subsequent phases of the Smith Gap landfill, as necessary, to provide ongoing landfill disposal capacity.

The **Capital Improvement Fund** (*Unrestricted*) was established to be used for various capital maintenance items and new capital projects anticipated for the ten-year planning period. Projects may be amended as solid waste operations and the industry in general continues to evolve.

The **Rutrough Road Landfill (RRLF) Post Closure Fund** (*Restricted*) provides funding for the Authority's contractual obligation to provide for the ongoing post closure care of the closed Rutrough Road Landfill. This fund was fully depleted from the capital expenditures associated with the construction of a new force main and sewer line that have substantially decreased annual operating expenses. Accordingly, the post closure care responsibilities are now funded by our annual revenues from the operating budget and the associated costs are budgeted as ongoing line-item expenditures in the general annual operating budget.

The **Contingency Fund** (*Unrestricted*) provides funding to stabilize year-to-year rate adjustments and to provide a source of funding for any unforeseen increases in expenses or decreases in revenue that would otherwise cause a negative balance for the Authority's operating funds.

V. Reporting

The Treasurer will track reserve account deposits and expenditures on a monthly basis. A monthly report will be sent to the Chief Executive Officer and the Authority's Secretary, which will be included on the Board of Directors' agenda for review at all regularly scheduled meetings. The Treasurer will also ensure that all expenditures have been through the appropriate approval process. The Chief Executive Officer will provide an annual report to the Board of Directors as to the adequacy of the funding levels of each respective reserve account.

ANNUAL REVIEW RVRA RESERVE FUNDS PLAN & REPORT FY 2022 – 2023

The Roanoke Valley Resource Authority reviewed its replacement reserve requirements as outlined per the Authority's "Financial and Reserves Policy" and has determined the adequacy of the funding plan as submitted herein. A five-year external review of the reserve funds was also conducted by Draper Aden Associates (DAA). DAA's report is attached as part of this Annual Review. The Authority, in its review, has defined adequacy to mean that sufficient funding, if funded as scheduled, exists in amounts equivalent to or exceeding the anticipated expenditures during a short-term period (next five subsequent fiscal years) and a long-term period (next ten subsequent fiscal years), with the understanding that certain amounts are to be borrowed, if needed, as indicated in the expenditure plan. The Authority has established the funding and expenditure plan, as outlined in the "Summary of Reserve Funds: 10-Yr. Planning Period" (p.11.)

This Reserve Fund Plan and subsequent report is exclusive of all previous borrowing associated with construction activities related to the now operational conversion from rail to truck at the Smith Gap Landfill and Tinker Creek Transfer Station. All debt service payments are accounted for within the FY 22-23 Operation Budget as obligated by the terms of the individual agreements. In addition, the RVRA has adjusted its previous anticipation of contracted waste via the existing County Waste (a commercial hauler) agreement from 100,000 tons annually to a more conservative estimate of 52,000 tons annually in FY'23. RVRA anticipates County Waste meeting its 100,000 tons of contracted waste volume starting in FY'24.

According to staff's review, the Equipment Reserve Fund is deemed to be adequate for the short and long-term planning periods. Staff may continue to elect to buy used equipment or from Government Surplus and modify to fit its needs as appropriate to further manage future costs. Again, as noted above, Staff is reviewing other purchasing options to include renting and/or leasing certain pieces of equipment, purchasing government surplus equipment and modifying to fit its needs. Due to the increase in tonnages and corresponding revenues made possible by the newly completed Transportation Corridor, specifically commercial waste, the Authority has been able to increase its annual contributions to the Reserves Fund accounts for looking forward. However, it should be noted that contributions to the reserves were significantly reduced for the

last several years, as needed, to balance the annual operating budgets and to minimize tipping fee increases.

At the start of FY'22, the Contingency Reserve Fund balance was \$3,723,133. Staff projects approximately \$2,239,194 will be expended in FY'22 for costs associated with the termination of the rail contract, the issuance of a letter of credit for financial assurance coverage, and a transfer to the operating fund cash held by Roanoke County. These projections yield a balance of \$1,483,939 that will be available in the Contingency Reserve Fund as of the start of FY 23. The Authority's Policy has the goal of retaining 8-10% of the annual operating budget in its Contingency Reserve. This projected balance is 9.99% of the FY'23 operating budget and is therefore compliant with the Authority's Policy.

Again, as noted last year, the Rutrough Road Post-Closure Account Reserve Fund is nearly depleted. Annual post closure care responsibilities were moved to the operations budget starting in FY 2018. Any remaining funds in the Rutrough Road Reserve account will be used exclusively for the Rutrough Road Landfill. This Fund is projected to be exhausted in the coming year(s) and will be eliminated from the Authority's Reserve Funds program upon depletion.

The Site Development Reserve Fund is deemed inadequate for the short-term period (first five-years); however, there are sufficient funds in the Closure Reserve Account to assist in constructing Phase VII of the landfill if necessary. Phase VII (Site Development Fund) had previously been moved up three years in anticipation of the additional tonnages and to allow improvements to the landfill in anticipation of tractor and trailers accessing the working face. Phase VII engineering is scheduled to start in FY'22 and be completed in early FY 23. The construction of Phase VII is scheduled to start during FY 23 with completion projected in FY'24 based on current tonnage data and airspace availability. Overall, the Reserve Funds remain at a steady balance over the next five and ten-year planning period with the funding levels shown.

The cumulative balance of all Reserve Funds is deemed adequate for both short and long term periods. Staff and DAA are of the opinion that the overall and combined Reserve Funds are consistent with the needs and obligations of the Authority as approved by the Authority's Board of Directors.

CONSULTING ENGINEERS REVIEW

The retirement of all outstanding bond debt in FY 2011 subsequently relieved the Authority of its former financial requirements as previously imposed by the Master Indenture of Trust, including the establishment and funding of certain reserve funds as recorded and reported in the annual report. While no longer obligated to the terms of the Master Indenture of Trust, several previously established reserve funds remain as ongoing obligations to the Authority due to start-up and operating restrictions imposed under the Authority's separate "Landfill & Transfer Station Permit Conditions & Operating Policies," including: *The Groundwater Protection Fund* (formerly known as "The Environmental Fund"); *The Host Community Fund*; and *The Property Protection Fund*. Additionally, the Authority is contractually obligated to maintain the post-closure care of the closed Roanoke Landfill (a.k.a. the Rutrough Road Landfill) with funds initially established and designated expressly for this purpose in *The Rutrough Road Landfill Post-Closure Fund*. Therefore, these four reserve funds are designated as "Restricted" reserve accounts which must be maintained and adequately funded for their express, respective purposes. The *Rutrough Road Landfill Post-Closure Fund* is nearing depletion and all remaining post closure care activities have been transitioned to the operating budget.

As part of its initial post-bond debt, fiscal responsibility, the Authority recognized that one of the keys to sound financial management is the development of a systematic way to fund planned capital projects and on-going maintenance programs beyond its operating permit and contractual requirements. The Authority believes it is equally important to establish the planned expenditures of associated funding for its capital projects and maintenance programs on a pay-as-you-go basis whenever possible.

The National Advisory Council on State and Local Budgeting (NACSLB) has issued guidelines representing standards of excellence in governmental budgeting that include the preparation of policies and plans for capital asset acquisition, maintenance, and replacement (Principle 2; Element 5; Practice 5.2). Therefore, the Authority established additional reserve funds for these purposes which are designated as “Unrestricted” reserve accounts since at this time there are no external conditions, other than sound financial management as outlined and approved in the **RVRA RESERVES PLAN** (“Plan”), requiring their existence and funding levels.

The Unrestricted Funds include: The Closure Fund; The Equipment Fund; The Site Development Fund; The Capital Improvement Fund; and The Contingency Fund. The Closure, Equipment, and Site Development Funds were previously required under the former Master Indenture of Trust and funding levels were maintained and managed accordingly. The Capital Improvement and Contingency Funds, while not previously required per any outside obligation, were established and recognized as being necessary for sound financial management of the Authority’s operations and its facilities. The Authority recognizes that periodically, it may need to add, delete, or amend its unrestricted funds as deemed to be in the best interest of the Authority and its members. The additional borrowing of funds (or debt) and the Ownership of the Salem Transfer Station has also impacted the future Reserve and Financial Policies of the Authority.

Per its Financial and Reserve Policy (Section III. H.), an external, third party review of the account allocations and funding levels by a professional engineer, familiar with best management practices of solid waste operations and facilities, will occur every five (5) years to ensure the funding

levels are adequate. That external review was conducted by Draper Aden Associates (DAA) for FY 2023 (Attached). Accordingly, the next external review is scheduled for FY 2028.

All funds required for expenditures for the five year planning period are currently projected to be available in the Reserve accounts, respectively, with the exception of the Site Development Reserve Fund. However, sufficient Funds are available in the Landfill Closure Fund to cover the short term planning period based on the ability to defer some or all of the closure, if necessary. The long range (ten-year projections) shows positive balances with the exception of the Site Development Reserve Account. While the balance in the overall unrestricted funds is positive, the funding levels drop off precipitously after Phase VII and Phase VIII Site Development have been completed in FY 23 and FY 28; however, as noted previously, the Authority may be able to delay Phase II and III closure , as needed, to balance the combined reserve accounts. While the Plan is still fairly fluid, it is consistent with the needs and obligations of the Authority and has been approved by the Authority's Board of Directors.

The Authority annually makes deposits to its reserve funds for funding future planned expenditures. These reserves allow the Authority to establish and project an orderly adjustment of its tipping fee revenues, as necessary, to prepare for future capital expenditures to coincide with its annual operating costs.

Initial projections made in 1992 during the start-up, 20-year revenue bond issuance established a basis of anticipated costs and revenues for operating the new solid waste disposal system through the bond term. Almost three decades of actual operating experience of the

Authority's systems has allowed the Authority to delay anticipated increases in tipping fees and offer rates less than originally projected.

In conclusion, each reserve fund has been reviewed by staff and the third-party engineer for its adequacy to meet the planned expenditures over a short-term period of five-years and for an extended, long-term, planning period of ten-years. As noted previously, the Site Development Fund is showing a shortage in the short and long-term planning periods; however, sufficient funds are available in the unrestricted accounts and/or use of Closure Funds to cover this shortfall during both periods. While the Site Development Reserve fund is showing a negative number in the short-term (FY 23) and long-term (FY 28) planning periods, the Total Reserve Balances remain positive. Therefore, both short and long-term reserve balances as adequate.

Staff re-assesses all the reserves every year and in some instances, equipment replacement and/or projects can be delayed or moved up depending on the situations at the time. In summary, while deficits are shown in the short and the long term reserve accounts, staff believes that the majority of those impacts can be mitigated as noted above.

Respectfully Submitted,

Daniel D. Miles, P.E.
Chief Executive Officer



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March 2, 2022

Sent via email to: dmiles@rvra.net
A hard copy will not be sent unless requested

Mr. Daniel D. Miles
Chief Executive Officer
Roanoke Valley Resource Authority
1020 Hollins Road, NE
Roanoke, Virginia 24012

**RE: Roanoke Valley Resource Authority
FY 2022 - 2023 Reserve Fund Review
Draper Aden Associates Job No. 2200480**

Dear Mr. Miles:

In accordance with our Agreement with the Roanoke Valley Resource Authority (Authority) signed February 11, 2022, Draper Aden Associates has reviewed the FY 2022 – 23 Reserve Funds Plan summary provided by the Authority on February 28, 2022 (final version) to evaluate funding adequacy over the next five years in accordance with the Authority's procedures and protocols. Draper Aden Associates had provided comments on several draft versions and believes that the final version adequately incorporates all of our comments. Different from our 2018 evaluation, is that the Authority now owns the Salem Transfer Station and hauls their waste via trucks to the Smith Gap Landfill. Hauling operations were begun on July 21, 2021.

The documents reviewed included the following information included in Sections IV and V of the report:

Section IV. Summary of Reserve Funds

- A. Summary of Reserve Funds – Ending balance 6/30/21/Beginning Balance 7/1/21 - Audit numbers (pg. 8)
- B. Summary of Reserve Funds – Expenditures/Deposits for FY 2021 - 2022 (pg. 9)
- C. Summary of Reserve Funds – Expenditures/Deposits for FY 2022 - 2023 (pg. 10)

D. Summary of Reserve Funds - 10 year planning period – FY 2022 through FY 2032 (pg. 11)

Section V. Reserve Funds and Expenditure Plans

- A. Landfill Closure Fund (pg. 13)
- B. Equipment Reserve Fund and summary sheets (pgs. 15 – 18)
- C. Groundwater Reserve Fund (aka Environmental Fund) (pg. 20)
- D. Host Community Reserve Fund (pg. 22)
- E. Property Protection Reserve Fund (pg. 24)
- F. Site Development Reserve Fund and summary sheets (pgs. 26 - 28)
- G. Capital Improvement Reserve Fund and summary sheets (pgs. 30 - 31)
- H. Roanoke (Rutrough Road) Post Closure Care Estimates (pgs. 33 – 34)
- I. Contingency Fund (pg. 36)

Draper Aden Associates also reviewed supporting information provided by the staff including:

- 1. Smith Gap Landfill life expectancy evaluation for Phases I through VI completed by Smith Gardner and provided in email to RVRA dated February 17, 2022
- 2. Bid summaries for Phase VI cell construction and Phase I closure construction.
- 3. Liner and closure cap construction work sheets.
- 4. Summary of Property Protection parcels and potential liability
- 5. Replacement pricing for equipment 2022 through 2032.
- 6. Additional information provided by the staff during various discussions.

In addition, as required by our scope of services, we have researched equipment prices and compared the construction estimates for closure and cell construction against industrial standards and recent bids managed by Draper Aden Associates.

The Authority's reserve funds consist of restricted and unrestricted funds. The unrestricted funds include Landfill Closure, Equipment Replacement, Site Development, Capital Improvement and Contingency Funds. The restricted funds include the Rutrough Road Landfill Post Closure, Groundwater Protection, Host Community, and Property Protection Funds. Our evaluation of these funds is provided below.

A. UNRESTRICTED FUNDS

Landfill Closure Fund – Smith Gap Landfill

The Authority completed their first partial closure (7.7 acres) at the Smith Gap Landfill in FY 2018.

Timing of partial closures at this landfill is related to the permit requirements associated with leachate management which allow no more than 50 acres of the landfill to remain open/uncapped. At this time, the Authority must essentially close the same amount of acreage as they open when constructing a new cell. With a new cell anticipated for construction in FY 2023 a partial closure is also anticipated for that time frame. This will occur again over the 10 year period in FY 2028. The FY 2023 cell will be approximately 10 acres, necessitating the closure of 10 acres of the landfill.

The Authority provided Draper Aden Associates with their work sheets for projecting closure costs for estimating reserve fund requirements. (**Attachment 1B**) For projections, RVRA has used the average of the six 2017/2018 bids eliminating the high and low bids for an estimated construction cost of \$198,268/acre. This base value is then used to project future closure estimates assuming a 2% inflation rate.

The base value used is very similar to bids received by Draper Aden Associates over the past eight years. It should be noted that the latest bids for Region 2000 and Botetourt had a significant amount of non-closure related construction items which could not be broken out from the bids. See Table 1 below. It should be noted that there is a wide variation in cap types as well as ancillary construction items and direct comparison of costs per acre is not be appropriate.

TABLE 1
DRAPER ADEN ASSOCIATES - BID COSTS
CLOSURE

FACILITY	DESCRIPTION	YEAR/SOURCE	COST PER ACRE	COST PER ACRE INFLATED TO 2022 @ 2%
Region 2000 – Concord Turnpike Landfill – final closure	26 acres – traditional cap – 18" infiltration layer – offsite soils used; active gas system to work around; no additional gas wells installed	2014 bid	\$185,100	\$216,874
Henrico – Springfield Rd Landfill – final closure	25 acres – alternate cap system; infiltration layer on top; membrane on sides; active gas system to work around; additional wells installed	2015 bid	\$128,900	\$148,066
R-Board – Stafford – Partial closure	18 acres – alternate cap system – active gas system to work around; no gas well installation required	2016 bid	\$171,300	\$192,912
Region 2000 - Phase	13 acres of traditional cap	2018 bid	\$258,275	\$279,565

FACILITY	DESCRIPTION	YEAR/SOURCE	COST PER ACRE	COST PER ACRE INFLATED TO 2022 @ 2%
III and interim cover placement	system with soil infiltration layer; compost mixed in top layer; 9 acres 6" - 12" interim cover; Small liner repair (Gas system separate bid item - not included.)		(Including interim cover)	
Botetourt- Final Closure	14.5 acres - traditional cap system with GCL infiltration layer; overfill that had to be addressed; borrow area development; gas vents installed	2021 bid	\$278,777	\$284,352
AVERAGE				\$223,500

Based on their worksheets, the Authority used the base value identified above (\$198,268/acre) and inflated it at 2.0% per year to the anticipated year of construction. Construction of the next partial closure (estimated at 10.07 acres) is anticipated in FY 2023, followed by another partial closure (estimated at 8.8 acres) anticipated in FY 2028.

In FY 2023, the projected cost would be \$223,282/acre with total closure construction (no engineering) estimated at \$2,248,450. Adding 12% to this for engineering/CQA brings the total anticipated construction cost for closure to \$2,518,264.

In FY 2028, the projected cost would be \$246,521/acre with total closure construction (no engineering) estimated at \$2,169,388. Adding 12% to this for engineering/CQA brings the total anticipated construction cost for closure to \$2,429,715.

We believe that the assumption of 2.0% for inflation is appropriate. VDEQ publishes an inflation rate annually for use in adjusting financial assurance estimates. The average of these values from 2000 through 2021 is 1.018. *A note of caution: The U.S. economy is in a period of high inflation due to various factors. Whether this continues or not is uncertain. This will impact material and delivery costs. The Authority must diligently continue to track material prices and gather input from their engineers on the current bid climate.*

Based on this information, we are in agreement with the Authority's methodology and projected costs.

The Authority will not fund the Closure Reserve fund in FY 2023. However, for the rest of the 10 year period, the Authority is indicating deposits of \$200,000/year into the fund. Given the reserve at the beginning of FY 2023 (\$4,397,370), the Closure Fund will remain solvent throughout the 10 year period including the two partial closures, with an ending balance projected at \$1,036,708.

It should be noted that the Closure Fund does not cover Post Closure Care which will need to be addressed at final closure of the landfill.

Equipment Reserve Fund

Draper Aden Associates researched current pricing for key equipment as listed on pages 15 through 18 of the Authority's evaluation. We contacted Carter Equipment to obtain 2022 list prices for the key equipment assuming Caterpillar equivalents. It is recognized that list pricing for Caterpillar equipment is conservative and on the high end of the price spectrum and that the Authority will use competitive procurement to obtain equipment as needed. We also contacted Ken's Truck Repair, Inc. to evaluate walking floor trailer costs.

Our findings are provided **in Attachment 2** to this letter entitled, "Key Equipment Components – 2022 replacement costs." Our estimates were higher for most equipment than the Authority's 2022 estimates. This is attributed to the issues with supply chain, demand and material costs as impacted by the pandemic and inflation as reflected in Carter's and Ken's Trucking communications..

In developing the equipment replacement schedule, the Authority utilized a 2.5% inflation rate, which we concur with as equipment costs can vary with the economy and competition. *A note of caution: The U.S. economy is in a period of high inflation due to various factors. Whether this continues or not is uncertain. This will impact equipment costs and during our research both Carter Equipment and Ken's Trucking warned of the potential impact of inflation on costs. The Authority must diligently continue to track equipment prices on an annual basis.*

At the Smith Gap landfill, the primary equipment replacement items over the 10 year period include: reconditioning three compactors, replacement of an excavator, bull dozer and haul truck.

At the Tinker Creek Transfer Station, the primary equipment replacement items over the 10 year period include: wheel loaders, excavator and the Morbark grinder.

At the Salem Transfer Station, the primary equipment replacement items over the 10 year period include: wheel loaders, excavators and the walking floor trailers.

All facilities have a number of lesser equipment purchase requirements over this period.

The Authority now owns a fleet of transfer trailers. Hauling operations just began in July 21, 2021. Therefore, for FY 2023, only three trailers are planned for purchase, with five per year beginning in FY 2029. Per Ken's Truck Repair Inc, the 2022 cost per trailer is approximately \$140,000+ and the Authority should consider future funding accordingly.

Based on our evaluation, we agree with the Authority's methodology including the inflation rate and are in general agreement with the estimated equipment costs. It is understood that a replacement fund for the walking floor trailers will evolve over the next 10 years.

The Authority has indicated a beginning reserve in FY 2023 of \$1.53 million dollars and a deposit in the Equipment Reserve fund of \$430,000 the same year, with subsequent years receiving \$1,800,000 per year. At the end of FY 2023 the reserve fund will be depleted to \$4,000 but rebounds rapidly within 5 years. At the end of the 10 year period, the reserve fund will have \$2.66 million dollars and would be sufficient for future equipment purchasing.

Site Development Fund

The Authority is currently filling Phase VI of the Smith Gap Landfill. Based on information provided by Smith Gardner and the January 11, 2022 survey, there are approximately 2.5 years of life remaining in Phases I through VI. (See **Attachment 3**) This evaluation set the schedule for the next cell constructions (Phase VII and Phase VIII) as discussed below. Phase VII has a permitted acreage of 10.1 acres and a permitted life of 3.8 years. Therefore Phase VIII will need to be constructed over the 10 year period. Phase VIII has a permitted acreage of 8.8 acres and permitted life of 6.2 years.

In FY 2018, the Authority completed construction of Phase VI (approximately 7.6 acres). The Authority had received six bids for the project. **Attachment 1A**, provides a summary of the bids. Removal of the low and the two high bids provides an average construction cost per acre of \$517,606. This has been the base value used as the Authority has projected costs for future cell development assuming an inflation rate of 2%.

This value is higher than the average of bids received by Draper Aden Associates over the past six years so is considered conservative. See Table 2 below. It should be noted

that there is a wide variation in liner types and construction requirements, and direct comparison of costs per acre may not be appropriate.

TABLE 2
DRAPER ADEN ASSOCIATES BID COSTS
CELL CONSTRUCTION

FACILITY	DESCRIPTION	YEAR/SOURCE	COST PER ACRE	COST PER ACRE INFLATED TO 2022 @ 2%
Orange Cell 2 Construction	5.7 acres - new cell; Standard GCL liner	2021 bid	\$340,175	\$346,979
CGGSA Cell 6 Construction	5 acres - new cell; Standard GCL liner; some rock removal and crushing; leachate system including major pump station; significant stormwater improvements	2021 bid	\$588,836	\$600,613
R-Board Cell F-3 Construction	10.23 acres - new cell; Standard GCL liner	2020 bid	\$348,761	\$362,850
SRPSA – Butcher Creek – Chase City – Cell 3	10 acres - new cell; Alternate liner system; significant rock removal; no infrastructure development	2018 low bid	\$308,726	\$334,175
Nottoway Cell 5 Construction	3.5 acres - new cell Standard GCL liner	2018 average bid	\$417,143	\$451,529
Rockbridge – Buena Vista – Cell 1	8.6 acres – new cell - alternate liner system; significant infrastructure construction (roads; leachate pond; partial piggyback liner)	2016 low bid	\$410,500	\$462,290
Region 2000 – Rustburg – Phase IV construction	18 acres – new cell - 24" clay/60 mil	2016 low bid	\$316,100	\$355,980

FACILITY	DESCRIPTION	YEAR/SOURCE	COST PER ACRE	COST PER ACRE INFLATED TO 2022 @ 2%
	membrane – major underdrain system installed; significant borrow development			
AVERAGE				\$416,400

The site development estimates for Phase VII and Phase VIII were developed utilizing a similar methodology as for closure, working with the base value of \$517,606 and a 2% inflation rate. The Authority provided Draper Aden Associates with their work sheets for projecting liner construction costs for estimating reserve fund requirements. **See Attachment 1C.**

In FY 2023, the projected construction cost for Phase VII (10.1 acres) would be \$582,908/acre with total cell construction (no engineering) estimated at \$5,869,885. Adding 12% to this for engineering/CQA brings the total anticipated construction cost for closure to \$6,574,271.

In FY 2028, the projected construction cost for Phase VIII (8.8 acres) would be \$643,578/acre with total closure construction (no engineering) estimated at \$5,663,483. Adding 12% to this for engineering/CQA brings the total anticipated construction cost for closure to \$6,343,101.

We believe that the assumption of 2.0% for inflation is appropriate. VDEQ publishes an inflation rate annually for use in adjusting financial assurance estimates. The average of these values from 2000 through 2021 is 1.018. *A note of caution: The U.S. economy is in a period of high inflation due to various factors. Whether this continues or not is uncertain. This will impact material and delivery costs. The Authority must diligently continue to track material prices and gather input from their engineers on the current bid climate.*

The Authority will deposit \$1.7 million dollars in the Site Development Fund in FY 2023 and then deposit \$1.5 million dollars in the fund for each of the next nine years. The fund begins with a reserve of \$3.7 million dollars in FY 2023 and ends with a reserve of \$5.4 million dollars in FY 32. However, in FY 2023 and FY 2028, during the construction of Phase VII and Phase VIII respectively, the reserve shows deficit balances. These are quickly rebalanced with the deposits but may impact cash flow and require drawing from other funds. Overall, however the total fund balance remains positive.

We would not suggest a modification in funding for this reserve fund as the cost per acre appears to be conservative. In addition, the life of Phase VII may extend if the assumed annual volume increase is not realized. This fund should be evaluated annually as the construction of Phase VIII approaches.

Capital Improvement Fund

Per discussions with Authority staff, there are limited capital improvements needed over the next 10 years. The improvements listed include a concrete slab and retaining wall for the mulch area (FY2026 - \$60,000), overlay floor for the Salem Transfer Station (FY2028 - \$250,000), roofing repairs at the Smith Gap Landfill (FY 2023 - \$50,000), and an overlay floor at the Tinker Creek Transfer Station (FY 2029 - \$250,000). Beginning in FY 2023, the Authority will begin to deposit \$90,000 into this fund annually over the next 10 years. The fund begins with a \$61,082 reserve in FY 2023 and ends with a \$351,082 reserve in FY 2032.

This fund appears to be solvent throughout the planning period.

Contingency Fund

The Contingency Fund is used for rate stabilization, for budget adjustments and to fund emergency expenses or unforeseen situations. It is funded from the surplus from operations. Because of the nature of the use of the fund, it is difficult to project annual expenditures and difficult to project the potential surplus and hence deposits into this fund on an annual basis. As discussed with the Authority, the fund is very fluid and flexible.

As of July 1, 2021 the fund was estimated to contain \$3,723,133 with a projected anticipated balance of \$1,483,939 as of June 30, 2022. The Authority has not projected any deposits or expenditures from this fund over the 10 year period. Thus, the fund is projected to remain at \$1,483,939. This fund is evaluated annually during the audit.

B. RESTRICTED FUNDS

Rutrough Road Landfill Post-Closure Fund

There is no longer a restricted fund for Rutrough Road. The post closure care activities were transferred to the Authority's operating budget for FY 2019. The remaining post closure care funds are being used to comply with a DEQ letter of compliance.

Groundwater Protection Fund (aka Environmental Fund)

The groundwater protection fund is established to provide funds, if needed, to address any adverse environmental effects on the surrounding area that may result from the operation of the Smith Gap Regional Landfill; specifically the contamination of groundwater and the subsequent need to provide clean drinking water to the residents. The fund contains \$500,000 and records provided indicate that this fund has maintained this balance since FY 1998-99 without further funding.

Given the stated use of the fund (i.e. mitigation of adverse impacts and the potential need to provide clean water to the residents) and based on our experience at other facilities involved in corrective action, this fund may be under funded if a significant problem were to be discovered. However, given the design of the facility which includes engineered liners and closure caps and given the installation of environmental monitoring systems which will act as early warning systems it is unlikely that such a catastrophic situation could occur. As the magnitude of any theoretical expenditures from this fund cannot be accurately estimated and given the low risk for a problem to arise, we support capping the fund at its current level with the recognition that the funding would probably not be sufficient in an emergency.

Host Community Fund

The Host Community Fund was established to fund *"the construction and/or maintenance of public improvements to Authority property for the benefit of the Host Community as determined through input from the Host Community and as set out in a public improvement plan."* When the fund was established, it was understood that it would be capped at \$150,000. The fund was established in FY 1993-1994 and has been building since this time. In FY 2014, the cap was raised to \$250,000. Projects funded from this fund historically have included playground equipment and computers.

The balance projected for the beginning of FY 2022- 2023 was estimated to be \$239,475. In FY 2023, the Authority will deposit \$10,000 into this fund bringing the fund near the \$250,000 cap. After FY 2023, the Authority indicates a deposit of \$10,000 and an expenditure of \$10,000, thereby keeping the fund near its capped limit. Given the uncertain nature of expenditure, this appears to be reasonable assumption.

Property Protection Fund

The Property Acquisition Fund (aka the Property Protection Fund) provides funds *"for payments under the Property Value Protection Policy to property owners within 5,000 feet of the landfill for any actual decline in property values that may be directly attributed to*

their proximity to the Smith Gap Regional Landfill as determined under the Policy". The fund is identified as having a beginning balance of \$502,000 in FY 1998-1999. The Authority provided us with a listing of the properties and current (2021) values assigned to the properties. **(See Attachment 4)** There are 148 properties eligible for this program of which 105 properties have been settled (approximately 71%). The assessed value of the remaining properties as reported for 2021 is \$4.3 million dollars. To date the Authority has spent \$452,479 on this program but recouped \$99,950 from sales.

The fund balance as of FY 2022 is reported to be \$370,430 in the summary (Page 24) and assumed to be maintained at this level over the planning period. This fund is not funded annually but periodically as funding is needed. The last time the funding was provided was FY 2016 in support of a property purchase not directly associated with the property protection guidelines.

It is most likely that properties will be sold slowly and over a long period of time with potentially limited impact from the landfill on property value. Hence the fund would appear to be sufficient at this time. It is also assumed that if the fund is tapped, it will be made whole again through additional deposits on a schedule developed by the Authority. It should be noted, however, that if something catastrophic happened at the landfill which impacted multiple properties simultaneously, the fund would be insufficient to handle the obligations per the policy.

CONCLUSIONS

Based on the annual total balance for all funds and for the unrestricted funds (Summary Table, Page 11), Draper Aden Associates considers that the reserve funds are adequate for the next 5 - 10 years; especially given the Authority's ability to use the unrestricted accounts as necessary to support the Authority's mission. The Site Development Fund is the only fund to go into a deficit during the planning period but quickly recovers assuming the Authority continues with the funding strategy notes in the document. *A note of caution: The U.S. economy is in a period of high inflation due to various factors. Whether this continues or not is uncertain. This will impact all costs for the Authority. The Authority must diligently continue to track inflation and its impact on its various funds over the next 10 years.*

We have based our conclusion on the assumption that nothing catastrophic occurs that would require the Authority to use funds from the Groundwater Protection, Host Community or Property Protection Funds in excess of the current balances.

Please do not hesitate to contact me if you have any questions or comments or need additional information at 540-552-0444 or dmarickovich@daa.com.

Sincerely,
DRAPER ADEN ASSOCIATES



Don Marickovich, P.E.
Senior Design Engineer

Attachments:

Attachment 1	Construction Estimate Worksheets
	A. Original Bids - Base Values
	B. Closure projections
	C. Cell construction projections
Attachment 2	Equipment Reserve Summary Table
Attachment 3	Smith Gardner Email - Remaining Landfill life
Attachment 4	Property Value Estimates

LPK/lpk

cc: Mr. Jeremy Garrett, Operations Manager, RVRA
Ms. Lynn Klappich, CSI CCCA, Draper Aden Associates

ATTACHMENT 1
CONSTRUCTION ESTIMATE WORKSHEETS

- A. Original Bids - Base Values**
- B. Closure projections**
- C. Cell construction projections**

Attachment: Third Party
Paraprofessionals

		Phase II Closure (10.07 Acres)						Phase III Closure (8.8 Acres)						
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032		
Development Year		\$ 218,904	\$ 223,282	\$ 227,748	\$ 232,303	\$ 236,949	\$ 241,688	\$ 246,521	\$ 251,452	\$ 256,481	\$ 261,610	\$ 266,843		
Per Acre Estimate (Adj. 2% Annually)		\$ 2,204,382.42	\$ 2,248,449.66	\$ 2,293,418.66	\$ 2,339,287.03									
Construction Cost Est.		\$ 264,533.49	\$ 269,813.96	\$ 275,210.24	\$ 280,714.44									
QC / QA Services (12%) Est.														
Total Construction QC/QA Est.	\$ 2,468,885.91	\$ 2,518,283.62	\$ 2,568,628.90	\$ 2,620,001.47										
Engineering Design Services (10%) Est.		\$ 220,436.24	\$ 224,844.97	\$ 229,341.87	\$ 233,928.70									
Construction Cost Est.						\$ 2,004,479.16	\$ 2,044,262.75	\$ 2,085,148.00	\$ 2,126,850.96	\$ 2,169,387.98	\$ 2,212,775.74	\$ 2,257,031.26	\$ 2,302,171.88	\$ 2,348,215.32
QC / QA Services (12%) Est.						\$ 240,501.50	\$ 245,311.53	\$ 250,217.76	\$ 255,222.12	\$ 260,326.56	\$ 265,533.09	\$ 270,843.75	\$ 276,250.63	\$ 281,795.84
Total Construction QC/QA Est.	\$ 2,244,680.66	\$ 2,289,574.28	\$ 2,335,365.76	\$ 2,382,073.08	\$ 2,439,714.54									
Engineering Design Services (10%) Est.		\$ 200,417.92	\$ 204,426.27	\$ 208,514.80	\$ 212,685.0									
Phase II Closure (10.07 Acres)														
Phase III Closure (8.8 Acres)														

Attachment: Third Party 5-Year Review

		Phase VII Cell Development (10.07 Acres)										Phase VIII Cell Development (8.8 Acres)														
Development Year		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	
Per Acre Estimate (Adj. 2% Annually)	\$ 560,273	\$ 571,479	\$ 582,988	\$ 594,596	\$ 606,458	\$ 618,587	\$ 630,958	\$ 643,578	\$ 656,449	\$ 669,578	\$ 682,970	\$ 696,629														
Construction Cost Est.	\$ 5,641,949.94	\$ 5,754,788.94	\$ 5,868,884.72	\$ 5,987,282.41	\$ 6,107,028.06																					
QC / QA Services (12% Est.)	\$ 677,053.98	\$ 690,574.67	\$ 704,386.17	\$ 718,473.89	\$ 732,843.37																					
Total Construction QC/QA Est.	\$ 6,318,983.93	\$ 6,445,363.61	\$ 6,574,270.89	\$ 6,705,756.30	\$ 6,839,871.43																					
Engineering Design Services (10% Est.)	\$ 564,194.98	\$ 575,478.89	\$ 586,988.47	\$ 598,728.24	\$ 610,702.81																					
Construction Cost Est.						\$ 5,232,183.24	\$ 5,336,826.91	\$ 5,443,563.44	\$ 5,552,434.71	\$ 5,663,483.41	\$ 5,776,753.08	\$ 5,892,288.14	\$ 6,010,133.90	\$ 6,130,336.58												
QC / QA Services (12% Est.)						\$ 627,861.99	\$ 640,419.23	\$ 653,227.61	\$ 666,202.17	\$ 679,618.01	\$ 695,210.37	\$ 707,074.58	\$ 721,216.07	\$ 735,640.39												
Total Construction QC/QA Est.						\$ 5,860,045.23	\$ 5,977,246.13	\$ 6,096,971.06	\$ 6,218,726.88	\$ 6,343,101.42	\$ 6,463,963.44	\$ 6,599,362.71	\$ 6,731,349.97	\$ 6,865,976.97												
Engineering Design Services (10% Est.)						\$ 523,218.32	\$ 533,682.69	\$ 544,256.24	\$ 555,243.47	\$ 566,248.34	\$ 577,575.31	\$ 589,228.81	\$ 601,013.39	\$ 615,033.66												

Attachment: Third Party 5-Year Review

ATTACHMENT 2
EQUIPMENT RESERVE SUMMARY TABLE

Attachment: Third Party 5 Year Review

ROANOKE VALLEY RESOURCE AUTHORITY
EQUIPMENT RESERVES
DRAPER ADEN ASSOCIATES EVALUATION
FY 2023 through FY 2027
CARTER MACHINERY - 2/18/22

Provided 2022 estimated replacement costs based on equivalent equipment.

EQUIPMENT	LOCATION	FY YEAR OF PROPOSED PURCHASE	BUDGET (2022 dollars)	COMMENTS CAT EQUIVALENT	2022 ESTIMATED REPLACEMENT COST	REPLACEMENT COST INFLATED TO YEAR OF PURCHASE (2.5%)	Difference - replacement vs budget
Volvo EC 300 D Excavator	Landfill	FY 2023-24	\$265,723	Cat 330G	\$352,380	\$370,219	1.39
John Deere Bulldozer (850k)	Landfill	FY 2023-24	\$540,286	Cat D6WH	\$540,286	\$567,638	1.05
CAT 730 Ton Haul Truck	Landfill	FY 2024-25	\$548,000	Cat 730K	\$576,680	\$621,021	1.13
CAT 730 Ton Haul Truck	Landfill	FY 2025-26	\$540,000	Cat 730K	\$576,680	\$636,547	1.18
CAT 130G Motor grader	Landfill	FY 2026-27	\$240,000	Cat 120	\$293,570	\$332,148	1.38
Michigan L150 - wheel loader	Tinker Creek TS	FY 2024-25	\$140,16	Cat 972	\$509,110	\$548,256	1.32
CAT 924G Loader	Tinker Creek TS	FY 2022-23	\$236,000	Cat 926M	\$219,720	\$225,213	0.95
Volvo EC 220 - Excavator	Tinker Creek TS	FY 2025-26	\$262,711	Cat 320	\$263,240	\$290,568	1.11
Doosan DX 225 - Excavator	Tinker Creek TS	FY 2025-26	\$262,711	Cat 325	\$303,620	\$335,140	1.28
John Deere 744 KII Wheel loader	Salem TS	FY 2026-27	\$310,000	Cat 972	\$509,110	\$576,011	1.86
Volvo ECR 235 Excavator	Salem TS	FY 2025-26	\$265,000	Cat 335	\$410,540	\$453,159	1.71
TOTAL			\$3,884,447		\$4,955,920		1.28
*CAT 826G compactor - refurbished	Landfill	FY 2024-25	\$662,626	Cat 826K	\$662,626	\$713,576	1.08

Notes:

1. Generally, over next 10 years, only one piece of equipment in each category is being purchased. Compactors are the exception.
2. Refurbished compactor cost compared against Region 2000 refurbished Aljion which was lower. Used RVRA cost. (Not a Carter quote)

ATTACHMENT 3

SMITH GARDNER EMAIL - REMAINING LANDFILL LIFE

Attachment: Third Party 5 Year Review

From: [Lynn Klappich](#)
To: [Lynn Klappich](#)
Subject: Smith Gardner - RVRA - Smith Gap LF - Phases I-VI Remaining Capacity/Life
Date: Tuesday, March 01, 2022 9:03:15 AM
Attachments: [image001.jpg](#)
[RVRA-B0166-FIGURE 1.pdf](#)
[RVRA-B0166-FIGURE 2.pdf](#)

From: Pieter Scheer <pieter@smithgardnerinc.com>
Sent: Thursday, February 17, 2022 3:41 PM
To: Lynn Klappich <lkklappich@daa.com>
Subject: [EXTERNAL] - RVRA - Smith Gap LF - Phases I-VI Remaining Capacity/Life

Attention: Email sent from outside DAA.

Jeremy:

The following is a summary of the capacity used since last year's survey and the capacity/life remaining in Phases I-VI. We'll include this information as part of our letter report for submittal to the DEQ, but this portion is pertinent to planning Phase VII.

Capacity Used Since 2021 Survey

S+G compared the current topography (January 11, 2022) with the 2021 topography (January 13, 2021 survey) (see attached **Figure 1** which shows a cut/fill isopach). Based on this comparison, approximately 262,687 CY of capacity was consumed between the two survey dates (shown in green). It is noted that the isopach shows some areas of cut (in red) across the landfill. Although settlement and removal of small stockpiles are factors, the magnitude of the observed cut is likely more related to slight differences in mapped elevations between the two surveys.

Remaining Constructed Capacity and Life

The attached **Figure 2** shows the intermediate cover grades for Phases I-VI and a cut/fill isopach showing the difference between existing topography (January 11, 2022) and proposed grades. The calculations show that approximately 943,002 CY (net) remains between existing and permitted grades. Note the areas shown in red which are overfills.

Using annual waste disposal tonnages and capacity filled for the past 2 years, the current airspace utilization factor (AUF) is approximately 0.81 tons/cubic yard. Assuming an annual disposal tonnage of 300,000 tons, the remaining life of Phases I-VI is approximately 2.5 years (from 1/11/22) or July-2024.

A few comments on the above as follows:

1. We've conservatively assumed net capacity remaining as if we will correct all overfill areas.
2. We've conservatively ignored settlement that we'll likely continue to see. Thus, the actual AUF should be higher as we go up.
3. We're assuming that we can fill to the maximum grades shown on Figure 2. Ideally, we'd want to leave a bit more room on top.

Just let me know if you have questions or need any additional information at this time.

Thanks.

Pieter

Pieter K. Scheer, P.E.
Vice President, Senior Engineer



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Raleigh, NC 27603

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Attachment: Third Party 5 Year Review

ATTACHMENT 4
PROPERTY VALUE ESTIMATES

Attachment: Third Party 5-Year Review

SMITH GAP PROPERTIES

2021

#	TAX MAP NUMBER	OWNERS NAME	PROPERTY ADDRESS	NOTES	SETTLEMENT	ASSESSED \$
1	31.00-1-32. -	GRISSEY JOE LYNWOOD	8841 BERRYBROOK DRIVE			\$ 87,600
2	31.00-1-33. -	GRISSEY JOE LYNWOOD	8841 BERRYBROOK DRIVE			\$ 91,000
3	32.00-01-06	MCDANIEL WALTER R ; MCDANIEL LOIS C		settled	\$ -	
4	32.00-1-7. -	HICKS PAUL WILLIE & ELIZABETH	000000 BRADSHAW RD	portion		\$ 80,000
5	32.00-1-8. -	BONGARD BRIAN T & LINDA A	007881 BRADSHAW RD	settled	\$ 900	
6	32.00-1-9. -	BENSON GEORGE L JR & VIRGINIA	BRADSHAW RD			
7	32.00-01-09.02	BORAK THOMAS H ; BORAK ANN	7945 BRADSHAW RD	settled	\$ -	
8	32.00-1-10.01	LUPER G WESLEY;LUPER CHRIST	7887 BRADSHAW RD	settled	\$ -	
9	32.00-1-10.03	POMERVILLE BRIAN	7889 BRADSHAW RD	settled	\$ -	
10	32.00-1-11. -	BORCHARDT STEVEN R ; BORCHARDT	007917 BRADSHAW RD	settled	\$ -	
11	32.00-1-12. -	HARTLEY ELLEN MARIE	5741 RAN LYNN DR, ROANOKE 24018	settled	\$ -	
12	32.00-1-13. -	SPENCER ROBERT MITCHELL ; SPENCER	007795 BRADSHAW RD	settled	\$ -	
13	32.00-1-14. -	BARLOW DWIGHT LEE & ANGELA	007732 BRADSHAW RD			\$ 161,300
14	32.00-1-14.1-	DEEGAN MARK P	007777 BRADSHAW RD	settled	\$ -	
15	32.00-1-14.2-	HIGHFILL ELIZABETH H;SIMMONS	007722 BRADSHAW RD	settled	\$ -	
16	32.00-1-14.3-	HAYNES ALYCE	007695 BRADSHAW RD	settled	\$ -	
17	32.00-1-14.4-	RAINES DANIEL S	007701 BRADSHAW RD	settled	\$ -	
18	32.00-1-14.5	FLINCHUM MARVIN ROSS	7791 BRADSHAW RD	settled	\$ -	
19	32.00-1-14.6-	FLINCHUM PERRY R TRUST AGRE	7787 BRADSHAW RD	settled	\$ -	
20	32.00-1-15. -	SHEPHERD, MATHEW & SAMANTHA	007645 BRADSHAW RD	settled	\$ -	
21	32.00-1-15.01 -	AKERS EDITH M	7615 BRADSHAW RD			\$ 100,000
22	32.00-1-29. -	AKERS DENNIS M & SANDRA E	007545 BRADSHAW RD	Heir		\$ 194,600
23	32.00-1-31.1-	AKERS STEPHEN ALLEN	007577 BRADSHAW RD	Heir		\$ 251,500
24	32.00-1-32. -	BARON GEORGE P & GEORGE JR	007680 BRADSHAW RD	settled	\$ -	
25	32.00-1-33. -	MEADOR BOBBIE WRAY & PAME	BRADSHAW RD			\$ 17,800
26	32.00-1-34. -	MEADOR BOBBIE W & PAMELA M	007578 BRADSHAW RD			\$ 115,800
27	32.00-1-35. -	HALE DAVID	007550 BRADSHAW RD		Heir	\$ 120,400
28	41.00-1-1. -	NESTER RALPH A & DANA C	008189 BRADSHAW RD			\$ 177,600
29	41.00-1-2. -	KORCSMAROS STEVEN;KORCSMAROS	000000 BRADSHAW RD	settled	\$ -	
30	41.00-1-3. -	NEW GRACE BAPTIST CHURCH	BRADSHAW RD	settled	\$ -	
31	41.00-1-4. -	CEMETERY	BRADSHAW RD	settled	\$ -	
32	41.00-1-5. -	CONNER JAMES R ET AL	008278 BRADSHAW RD	Heir		\$ 100,500
33	41.00-1-6.01	NUNLEY ARCHIE ELWOOD & LILLIE	008308 BRADSHAW RD			\$ 305,200
34	41.00-1-7. -	KORCSMAROS STEVEN;KORCSMAROS	8210 BRADSHAW RD	settled	\$ -	
35	41.00-1-8. -	ROANOKE VALLEY RESOURCE A	008386 BRADSHAW RD	settled	\$ -	
36	41.00-1-9. -	CAMPBELL STEVE W	008372 BRADSHAW RD	settled	\$ -	
37	41.00-1-10. -	FAGG GREGORY A	008398 BRADSHAW RD			\$ 41,700
38	41.00-1-11. -	SMITH REBECCA ; SNYDER BAYLOR	008408 BRADSHAW RD	settled	\$ -	
39	41.00-1-11.1-	CEMETERY	BRADSHAW RD	settled	\$ -	
40	41.00-1-12. -	LAMBERT EDDIE R	008432 BRADSHAW RD	settled	\$ -	
41	41.00-1-13. -	GIEBNER CHARLES A;GIEBNER DON	008394 BRADSHAW RD	settled	\$ -	
42	41.00-1-14. -	ROANOKE VALLEY RESOURCE A	8484 BRADSHAW RD	settled	\$ -	
43	41.00-1-14.1-	SNYDER GARY LEE & SUZI	008466 BRADSHAW RD	settled	\$ -	
44	41.00-1-15. -	DAMIANO SAMUEL J ; DAMIANO	008506 BRADSHAW RD	settled	\$ -	
45	41.00-1-17. -	GARMAN REVOCABLE TRUST AG	BRADSHAW RD	Heir		\$ 36,300
46	41.00-1-17.1-	GARMAN REVOCABLE TRUST AG	008536 BRADSHAW RD	Heir		\$ 135,200
47	41.00-1-18. -	GARMAN KEITH W & VICKIE	008538 BRADSHAW RD	Heir		\$ 120,100
48	41.00-1-19. -	SINK ELMER LEE & CARRIE	BRADSHAW RD			\$ 5,600
49	41.00-1-20. -	SINK BECKY S ; CONNER ASHLEY	008648 SINKER LN	settled	\$ -	
50	41.00-1-21. -	CONNER JAMES RONALD &	008632 SINKER LN			\$ 91,300
51	41.00-1-22. -	SINK ROBERT S ; CONNER NANCY	8060 BRADSHAW RD			\$ 37,200
52	41.00-1-22.1 -	SINK BECKY SUE	8680 BRADSHAW RD			\$ 122,300
53	41.00-1-23. -	SINK ROBERT S ; CONNER NANCY	008664 BRADSHAW RD			\$ 105,900
54	41.00-1-24. -	HICKS LESLIE V	008692 BRADSHAW RD			\$ 111,400
55	41.00-1-25. -	TABOR PATRICK A & CATHY E	008702 BRADSHAW RD			\$ 109,100
56	41.00-1-26. -	DIXON AMANDA WHITE ; DIXON	008710 BRADSHAW RD	settled	\$ -	
57	41.00-1-27. -	HYPES KIMERLY P	008720 BRADSHAW RD	settled	\$ -	
58	41.00-1-28. -	KAUFMANN BRYAN A	8728 BRADSHAW RD	settled	\$ -	
59	41.00-1-29. -	KAUFMANN BRYAN A	008728 BRADSHAW RD	settled	\$ -	

	TAX MAP NUMBER	OWNERS NAME	PROPERTY ADDRESS	NOTES	SETTLEMENT	ASSESSED \$
60	41.00- 1-29. 1-	FIELDS CASSANDRA J	008744 BRADSHAW RD	settled	\$ -	
61	41.00- 1-29. 2-	DOWNEY ERNEST A JR & DEBOR	008750 BRADSHAW RD			\$ 133,100
62	41.00- 1-30. -	LECHOWICH RONALD CARL	008766 BRADSHAW RD	settled	\$ -	
63	41.00- 2- 1. -	HICKS M L C/O PAUL W HICKS	000000 BRADSHAW RD			\$ 33,100
64	41.00- 2- 2. -	FURROW RITA	008069 BRADSHAW RD	settled	\$ 13,350	
65	41.00- 2- 2. 1-	BRITT CLARENCE DANIEL	BRADSHAW RD	settled	\$ -	
66	41.00- 2- 2. 2-	FERGUSON MICHAEL DAVID ; TAY	BRADSHAW RD	estate/heir		\$ 48,200
67	41.00- 2- 2. 3-	RUSSELL CAMERON E	008072 BRADSHAW RD	settled	\$ -	
68	41.00- 2- 2. 4-	RICHARDS DANIEL W & MARTHA	BRADSHAW RD	settled	\$ -	
69	41.00- 2- 2. 5-	BRANDENBURG WILLIAM ROGER	008036 GRACIE RD	settled	\$ -	
70	41.00- 2- 2. 6-	BRANDENBURG WILLIAM ROGER	008044 GRACIE RD	settled	\$ -	
71	41.00- 2- 2. 7-	BRITT CLARENCE DANIEL &	BRADSHAW RD			\$ 14,200
72	41.00- 2- 2. 8-	DAWSON MARK	8022 BRADSHAW RD	settled	\$ -	
73	41.00- 2- 2. 9 -	DOBYNS ROBYN N	8016 Gracie Rd	settled	\$ -	
74	41.00- 2- 2. 10 -	DOBYNS ROBYN N	8016 Gracie Rd	settled	\$ -	
75	41.00- 2- 3. -	BRITT CLARENCE DANIEL	008071 BRADSHAW RD	heir		\$ 25,700
76	41.00- 2- 4. -	LANE WALTER JR & FRANCES M	008110 BRADSHAW RD	heir		\$ 113,800
77	41.00- 2- 5. -	DUDDING PAMELA J	8115 BRADSHAW RD	settled	\$ -	
78	41.00- 2- 6. -	DUDDING PAMELA J	008115 BRADSHAW RD	settled	\$ -	
79	41.00- 2- 7. -	LONG KYLE D;LONG BETHANIE M	008094 BRADSHAW RD	settled	\$ -	
80	41.00- 2- 9. -	MOWLES JEREMY W	008165 BRADSHAW RD	settled	\$ -	
81	41.00- 2- 9. 1-	MARTIN RICHARD A & REGINA M	008133 BRADSHAW RD			\$ 212,900
82	41.00- 2-10. -	PURDY JAMES B JR;PURDY JAMES	2832 CARVINS COVE RD	settled	\$ -	
83	41.00- 2-11. -	LAWRENCE WILLIAM C	008241 BRADSHAW RD	settled	\$ -	
84	41.00- 2-12-	NEW GRACE BAPTIST CHURCH	008269 BRADSHAW RD	settled	\$ -	
85	41.00- 2-12-	NEW GRACE BAPTIST CHURCH	008269 BRADSHAW RD	settled	\$ -	
86	41.00- 2-13. -	ENGLISH WILLIAM O;ENGLISH JUI	008293 BRADSHAW RD	settled	\$ -	
87	41.00- 2-13. 1	NEW GRACE BAPTIST CHURCH	008269 BRADSHAW RD	settled	\$ -	
88	41.00- 2-13. 2-	ENGLISH WILLIAM O;ENGLISH JUI	008293 BRADSHAW RD	settled	\$ -	
89	41.00- 2-13. 3-	ENGLISH WILLIAM O;ENGLISH JUI	008293 BRADSHAW RD	settled	\$ -	
90	41.00- 2-14. -	ABRAMS COURTNEY	008301 BERRYBROOK DR	settled	\$ -	
91	41.00- 2-15. -	BLANKENSHIP LARRY THOMAS	008380 BERRYBROOK DR			\$ 168,100
92	41.00- 2-17. -	LAYMAN JESSE L	008504 BERRYBROOK DR	settled	\$ -	
93	41.00- 2-19. -	PURDY JAMES B JR;PURDY JAMES	2832 CARVINS COVE RD	settled	\$ -	
94	41.00- 2-19. 1-	PURDY JAMES B JR;PURDY JAMES B III;PURDY AMANDA M		settled	\$ -	
95	41.00- 2-21. -	PAITSEL PATRICIA	008695 BERRYBROOK DR	settled	\$ -	
96	41.00- 2-22. -	STUMP CLARENCE W ; STUMP KE	008877 BERRYBROOK DR			
97	41.00- 2-23. -	WALDMAN HELEN JEAN	008580 BERRYBROOK DR	settled	\$ -	
98	41.00- 2-23.01-	BARON GEORGE P SR;BARON MA	4000 ROYAL MARCO WAY, Marco Fl	settled	\$ -	
99	41.00- 2-24. -	WHITE VINCENT K	008385 BRADSHAW RD	settled	\$ 43,150	
100	41.00- 2-24. 1-	PAITSEL GARY	PO BOX 1405	settled	\$ -	
101	41.00- 2-25. -	TENSEN KEITH & VALERIE	008473 BRADSHAW RD	settled	\$ -	
102	41.00- 2-26. -	NOFTSINGER MAUREEN H	008425 BRADSHAW RD	settled	\$ 8,470	
103	41.00- 2-27. -	GARMAN PATRICIA H	000000 BRADSHAW RD			\$ 24,800
104	41.00- 2-28. -	TULLY KENNETH ; HIRSCHFELD D	008853 BRADSHAW RD			\$ 101,900
105	41.00- 2-28. 1-	GARMAN KENNETH W ; GARMAN	008519 BRADSHAW RD	heir		\$ 58,800
106	41.00- 2-28. 2-	HIRSCHFELD DEIDRE ANN	BRADSHAW RD	settled	\$ -	
107	41.00- 2-28. 3-	BRADSHAW JOHN D & TINA D	008703 BRADSHAW RD	settled	\$ -	
108	41.00- 2-28. 4-	QUINCE FARM LLC	8685 BRADSHAW RD	settled	\$ -	
109	41.00- 2-28. 5-	LUPER CHRISTOPHER & CHAST.	008641 BRADSHAW RD	settled	\$ -	
110	41.00- 2-28. 6-	GARMAN KENNETH W	008519 BRADSHAW RD			\$ 224,400
111	41.00- 2-29. -	QUINCE FARM LLC	000000 BRADSHAW RD	settled	\$ -	
112	41.00- 2-30. -	SMITH RALPH K	000000 BRADSHAW RD	settled	\$ -	
113	42.00- 1- 1. 1-	COMMONWEALTH OF VIRGINIA B	5228 VALLEYPOINTE PKWY	settled	\$ -	
114	42.00- 1- 2. -	GESINK KERRY;GESINK BETTY A	007848 BRADSHAW RD	settled	\$ -	
115	42.00- 1- 3. -	GESINK KERRY;GESINK BETTY A	BRADSHAW RD	settled	\$ -	
116	42.00- 1- 4. -	HEAVENER ANTHONY PAUL II ; H	007950 BRADSHAW RD	settled	\$ -	
117	42.00- 1- 5. -	FERGUSON MICHAEL DAVID ; TAY	008062 BRADSHAW RD	heir		\$ 221,400
118	42.00- 1- 6. -	FERGUSON MICHAEL DAVID ; TAY	000000 BRADSHAW RD	heir		\$ 15,000
119	42.00- 1- 8. -	*ROANOKE VALLEY RESOURCE A	BRADSHAW RD		\$ 212,464	\$ -
120	42.00- 1-10. -	JOHNSTON MICHAEL J & CRYSTA	008068 BRADSHAW RD	settled	\$ -	
121	43.00- 1-45. -	FORT LEWIS MINT COMPANY	005502 GLENVAR HEIGHTS BL	settled		
122	43.00- 1-46. -	KANE DANNY RAY & SONJA S	000000 BRADSHAW RD	settled	\$ -	
123	52.00- 1- 1. -	SINK ROBERT S ; CONNER NANCY	008681 SINKER LN			\$ 50,400
124	52.00-01-02	FORBES JAMES A ; FORBES JUDY	008890 WILLJBY RD	settled	\$ -	

125	52.00- 1- 2. 1-	FORBES JAMES A	008890 WILLIBY RD	settled	\$ 24,008	
126	52.00- 1- 2. 2-	BEDILLION JASON W	008863 WILLIBY RD	settled	\$ 25,000	
127	52.00- 1- 2. 3-	HAMBRICK LEWIS	008841 WILLIBY RD	settled	\$ -	
128	52.00- 1- 2. 4-	SMITH CAMMY N ; SMITH TONY R	008827 WILLIBY RD	settled	\$?	
129	52.00- 1- 2. 6-	POWELL JENNIFER S	008801 WILLIBY RD	settled	\$ 8,679	
130	52.00- 1- 2. 7-	SMITH ALVIN DEAN & PATRI	008793 WILLIBY RD		\$ 95,300	
131	52.00- 1- 2. 8-	RVRA	8765 WILLIBY RD		\$ -	
132	52.00- 1- 2. 9-	HODGES PAUL M	WILLIBY RD	settled	\$ 300	
133	52.00- 1- 2.10-	HODGES PAUL M	008739 8733 WILLIBY RD	settled	\$ 300	
134	52.00- 1- 2.11-	HICKS PAUL W	WILLIBY RD		\$ 39,900	
135	52.00- 1- 2.12-	PENNEWELL PHILLIP L;PENNEWELL	8840 WILLIBY RD	settled	\$ 900	
136	52.00- 1- 2.13-	REYNOLDS SCOTT NEAL ; REYNO	008850 WILLIBY RD	settled	\$ 114,958	
137	52.00- 1- 3-	ROANOKE VALLEY RESOURCE AU	8484 BRADSHAW RD	settled	\$ -	
138	53.00- 1- 5. -	CARROLL BARRY LYNN ; CARROL	4095 Reese Mountain Rd	settled	\$ -	
139	53.00- 1- 5. 02 -	GOAD DORIS K	0 Twine Hollow Rd	settled	\$ -	
140	53.00- 1- 6. 01 -	RADFORD JAMES AARON	DOW HOLLOW RD	settled	\$ -	
141	53.00- 1- 6. 03 -	GOAD PAUL DWAYNE	0 Dow Hollow Rd	settled	\$ -	
142	53.00- 1- 6. 08 -	CEMETERY	0 Reese Mountain Rd	settled	\$ -	
143	53.00- 1- 6. 09 -	HOGAN CHARLES E ; HOGAN SUS	4010 Reese Mountain Rd	settled	\$ -	
144	53.00- 1- 7. -	HS TEJAS LTD	DOW HOLLOW RD	settled	\$ -	
145	53.00- 1- 8. -	ROANOKE VALLEY RESOURCE A	DOW HOLLOW RD	settled	\$ -	
146	54.00-01-04-	SHELOR DAVID WAYNE REV TRU	5502 Glenvar Heights Blvd	settled	\$ -	
147	63.00-01-27-	HEWITT WAYNE M ; HEWITT REB	4011 Reese Mountain Rd	settled	\$ -	
148	63.00-01-29	ENERGETIC SOLUTIONS INC	0 Twine Hollow Rd	settled	\$ -	
				SUB TOTAL	\$ 452,479	\$ 4,300,400
				* RECOVERED FROM SALES		
				8850 Williby Rd.	\$ 99,950	
	ESTIMATED REMAINING LIABILITY:	\$ 4,300,400.00				
105	Properties Settled			NET	\$ 352,529	

Attachment: Third Party Settlements

**SUMMARY OF RESERVE FUNDS
EXPENDITURES/DEPOSITS FOR FY 2023**

	BALANCE AT 07/01/22 (anticipated)	PLANNED/ACTUAL EXPENDITURES 2022/2023	DEPOSITS	BEGINNING BALANCE 1-Jul-2023
CLOSURE FUND	\$ 4,397,370	\$ 2,518,263	\$ -	\$ 1,879,107
EQUIPMENT	\$ 1,532,992	\$ 1,958,000	\$ 430,000	\$ 4,992
ENVIRONMENTAL FUND	\$ 500,000	\$ -	\$ -	\$ 500,000
HOST COMMUNITY	\$ 239,475	\$ -	\$ 10,000	\$ 249,475
PROPERTY VALUE PROTECTION	\$ 370,430	\$ -	\$ -	\$ 370,430
SITE DEVELOPMENT	\$ 3,714,583	\$ 6,574,270	\$ 1,796,379	\$ (1,063,308)
CAPITAL IMPROVEMENT FUND	\$ 61,082	\$ 50,000	\$ 90,000	\$ 101,082
TOTALS	\$ 10,815,932	\$ 11,100,533	\$ 2,326,379	\$ 2,041,778
CONTINGENCY	\$ 1,483,939	\$ -	\$ -	\$ 1,483,939
NOTES:				
GRAND TOTAL	\$ 12,299,871			\$ 3,525,717

Summary of Reserve Funds: Ten Year Planning Period

Fiscal Year	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32
Deposits											
Closure	0	0	200	200	200	200	200	200	200	200	200
Equipment	2174	430	1800	1800	1800	1800	1800	1800	1800	1800	1800
Environmental	0	0	0	0	0	0	0	0	0	0	0
Host Community	10	10	10	10	10	10	10	10	10	10	10
Property Protection	0	0	0	0	0	0	0	0	0	0	0
Site Development	1664	1796	1500	1500	1500	1500	1500	1500	1500	1500	1500
Capital Improvement	0	90	90	90	90	90	90	90	90	90	90
total	3848	2326	3600	3600	3600	3600	3600	3600	3600	3600	3600
Expenditures											
Closure	280	2,518	0	0	0	213	2,430	0	0	0	0
Equipment	725	1,958	977	1,839	1,483	1,098	1,946	1,584	1,215	1,994	1,406
Environmental	0	0	0	0	0	0	0	0	0	0	0
Host Community	0	0	0	10	10	10	10	10	10	10	10
Property Protection	0	0	0	0	0	0	0	0	0	0	0
Site Development	308	6,574	0	0	0	555	6,343	0	0	0	0
Capital Improvement	150	50	0	0	60	0	250	250	0	0	0
total	1463	11100	977	1849	1553	1876	10979	1844	1225	2004	1416
Balances						5 year					10 year
Closure	4,397	1,879	2,079	2,279	2,479	2,466	236	436	636	836	1,036
Equipment	1,532	4	827	788	1,105	1,807	1,661	1,877	2,462	2,268	2,662
Environmental	500	500	500	500	500	500	500	500	500	500	500
Host Community	239	249	259	259	259	259	259	259	259	259	259
Property Protection	370	370	370	370	370	370	370	370	370	370	370
Site Development	3,715	-1,063	437	1,937	3,437	4,382	-461	1,039	2,539	4,039	5,539
Capital Improvement	61	101	191	281	311	401	241	81	171	261	351
total	10,814	2,040	4,663	6,414	8,461	10,185	2,806	4,562	6,937	8,533	10,717

Summary of Other Reserve Funds: Ten Year Planning Period

Fiscal Year	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32
Deposits											
Rutrough Road	0	0	0	0	0	0	0	0	0	0	0
Contingency	0	0	0	0	0	0	0	0	0	0	0
Expenditures											
Rutrough Road	0	0	0	0	0	0	0	0	0	0	0
Contingency	2239	0	0	0	0	0	0	0	0	0	0
Balances						5 year					10 year
Rutrough Road	0	0	0	0	0	0	0	0	0	0	0
Contingency	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,484	1,484
Totals						5 year					10 year
All Funds	12,298	3,524	6,147	7,898	9,945	11,669	4,290	6,046	8,421	10,017	12,201
Unrestricted Funds						5 year					10 year
All Funds	11,189	2,405	5,018	6,769	8,816	10,540	3,161	4,917	7,292	8,888	11,072

CLOSURE FUND

The Closure Fund provides a reserve for the costs of capping completed areas of the Smith Gap Regional Landfill and to install all groundwater and gas monitoring and collection systems per regulatory requirements.

For the last three years, due to a loss of commercial revenue, no deposits were made to the Closure Account. For the current planning period, again staff is not recommending any deposits to the Closure Reserve Account since the Funds are adequate for the immediate five-year planning period. Staff anticipates making \$200,000 deposits to the Closure Account thereafter. . As noted, deposits may be adjusted based on revised cost estimates and an increase or decrease in the amount of waste received in future years.

The Closure Reserve Account funding levels are for capital costs associated with closing portions of the landfill and not intended to fund the post closure care.

Landfill Closure Fund

FISCAL YEAR	BEGINNING BALANCE	ANNUAL DEPOSIT	EXPENSES	ENDING BALANCE	USES
1998-99	2,375,000	250,000	0	2,625,000	
1999-20	2,625,000	250,000	0	2,875,000	
2000-01	2,882,755	250,000	0	3,132,755	
2001-02	3,132,755	250,000	0	3,382,755	
2002-03	3,382,755	250,000	0	3,632,755	
2003-04	3,632,755	250,000	0	3,882,755	
2004-05	3,882,755	250,000	0	4,132,755	
2005-06	4,132,755	250,000	0	4,382,755	
2006-07	4,382,755	250,000	0	4,632,755	
2007-08	4,632,755	1,050,000	10,291	5,672,464	Phase I Design
2008-09	5,672,464	600,000	29,817	6,242,647	Phase I Design & LFGCCS
2009-10	6,242,647	600,000	72,704	6,769,943	Phase I Design & LFGCCS
2010-11	6,769,943	400,000	1,589,591	5,580,352	Complete LFGCCS
2011-12	5,580,352	100,000	193,600	5,486,752	Misc. LFGCCS & LFGTE
2012-13	5,486,752	300,000	22,500	5,764,252	Closure & Misc LFGCCS
2013-14	5,764,252	300,000	21,915	6,042,337	Misc. LFGCCS
2014-15	6,042,337	300,000	97,867	6,244,470	Engineering
2015-16	6,244,470	200,000	9,870	6,434,600	Engineering
2016-17	6,434,600	200,000	831,181	5,803,419	Phase I Engr. & Constr. (7.6 Ac)
2017-18	5,803,419	250,000	891,229	5,162,190	Phase I Engr. & Constr. (7.6 Ac)
2018-19	5,162,190	0	0	5,162,190	
2019-20	5,162,190	0	484,820	4,677,370	Engr & Const LFG expansion
2020-21	4,677,370	0	0	4,677,370	
2021-22	4,677,370	0	280,000	4,397,370	Phase II Design & QC/QA
2022-23	4,397,370	0	2,518,263	1,879,107	Phase II Construction (10 Ac)
2023-24	1,879,107	200,000	0	2,079,107	
2024-25	2,079,107	200,000	0	2,279,107	
2025-26	2,279,107	200,000	0	2,479,107	
2026-27	2,479,107	200,000	212,685	2,466,422	Closure Design (TBD)
2027-28	2,466,422	200,000	2,429,714	236,708	Closure Construction (TBD)
2028-29	236,708	200,000	0	436,708	
2029-30	436,708	200,000	0	636,708	
2030-31	636,708	200,000	0	836,708	

Note: Additional funding from Surplus (\$550,000) was added from FY06/07 budget in FY 07/08

EQUIPMENT FUND

The Equipment Fund is established to provide funds for the regularly scheduled replacement purchases of major operating equipment.

Under the new truck based operation, deposits for FY 23 are planned at \$430,000 for new equipment next year. For FY 2024 and beyond, Staff has shown an increase in the funding levels to \$1,800,000, provided funds are available. The Equipment Reserve Account shows a low balance of \$4,000 at the end of FY '23 with no deficits during the short-term or long- term planning periods at the proposed funding levels.

Staff will continue to identify any obsolete or other excess machinery as part of normal operations that may generate additional revenues. Staff will prepare a Board Report declaring this equipment as surplus and to be auctioned off. The exact funds the Authority may recoup is unknown; therefore, no additional funding from the sale of surplus equipment is shown. Currently, the rotary tipper and all associated parts have been previously declared as "surplus" by the Board. Staff continues to pursue the most appropriate method of liquidating these assets.

Staff continuously evaluates all purchasing options when replacing a piece of equipment to ensure costs are managed. The Equipment Reserve fund also serves to assist in complying with post-closure requirements of financial assurance regulations.

Equipment Reserve Fund

FISCAL YEAR	BEGINNING BALANCE	ANNUAL DEPOSIT	EXPENSES	ENDING BALANCE	Detailed Schedule
1998-99	2,704,000	375,000	260,000	3,127,939	See Attached
1999-20	3,127,939	375,000	288,289	3,214,650	See Attached
2000-01	3,214,650	375,000	555,535	3,034,115	See Attached
2001-02	3,034,115	375,000	987,595	2,421,520	See Attached
2002-03	2,421,520	375,000	680,098	2,116,422	See Attached
2003-04	2,116,422	400,000	459,327	2,057,095	See Attached
2004-05	2,057,095	400,000	561,464	1,895,631	See Attached
2005-06	1,895,631	400,000	323,589	1,972,042	See Attached
2006-07	1,972,042	400,000	492,652	1,879,390	See Attached
2007-08	1,879,390	674,231	1,280,731	1,272,890	See Attached
2008-09	1,272,890	400,000	1,103,483	569,407	See Attached
2009-10	569,407	600,000	351,088	818,319	See Attached
2010-11	818,319	600,000	625,485	792,834	See Attached
2011-12	792,834	600,000	937,839	454,995	See Attached
2012-13	454,995	1,250,000	651,277	1,053,718	See Attached
2013-14	1,053,718	1,100,000	858,452	1,295,266	See Attached
2014-15	1,295,266	1,100,000	1,292,433	1,102,833	See Attached
2015-16	1,102,833	1,000,000	316,228	1,786,605	See Attached
2016-17	1,786,605	1,000,000	1,443,855	1,342,750	See Attached
2017-18	1,342,750	1,400,000	1,518,729	1,224,021	See Attached
2018-19	1,224,021	268,412	1,146,681	345,752	See Attached
2019-20	345,752	200,000	241,463	304,289	See Attached
2020-21	304,289	0	220,406	83,883	See Attached
2021-22	83,883	2,174,159	725,000	1,533,042	See Attached
2022-23	1,533,042	430,000	1,958,000	5,042	See Attached
2023-24	5,042	1,800,000	977,014	828,028	See Attached
2024-25	828,028	1,800,000	1,839,243	788,785	See Attached
2025-26	788,785	1,800,000	1,482,660	1,106,125	See Attached
2026-27	1,106,125	1,800,000	1,098,109	1,808,016	See Attached
2027-28	1,808,016	1,800,000	1,945,515	1,662,501	See Attached
2028-29	1,662,501	1,800,000	1,584,678	1,877,823	See Attached
2029-30	1,877,823	1,800,000	1,215,295	2,462,528	See Attached
2030-31	2,462,528	1,800,000	1,994,129	2,268,399	See Attached
2031-32	2,268,399	1,800,000	1,406,258	2,662,141	See Attached

Major Equipment Replacement Schedule												
Equipment Description	year	site	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Volvo EC 300 D Excavator	2011	SC		\$265,723								
Komatsu D155A Bulldozer	2007	SC										
CAT D 8 (Equivalent)	2021	SC										
John Deere Bulldozer (850 K)	2012	SC		\$420,807								
(Recond.) Cat 826G #1 Compactor	2003	SC	\$617,000									
(Recond.) Bomag 7/22 RB-4	2019	SC										
(Recond.) Cat 826 G #3 Compactor	2013	SC										
Cat 973 Track Loader	1992	SC										
CAT 730 - Ton Haul Truck	2017	SC										
CAT 730 - Ton Haul Truck	2017	SC										
Cat 130G Motor Grader	1976	SC										
Vovo EC235	2019	SC										
Finn T 330 Hyrdro Seeder/ Water TRK	2015	SC										
Yale Forklift	2019	SC										
Ford L9000 Dump Truck	1992	SC	\$205,000									
New Holland	2000	SC										
Ford 150 Crew Cab	2009	SC										
Ford F 150 Crew Cab	2013	SC										
Dodge Crew Cab	2008	SC										
Ford Service Truck	2001	SC	\$40,000									
Freight Car Mobile Lube Truck	2011	SC										
Freightliner Roll-off	2000	SC		\$150,584								
Silverado	2017	SC										
Explore	2018	SC										
Backhoe (4x4 with broom)	2021	SC										
Western Star Tractor	2016	SC										
Military Vehicle # 1 - Used	2018	SC										
Military Vehicle # 2 - Used	2019	SC										
Ventrac Slope mower	2022	SC		\$50,000								
New Vibratory Roller	2023	SC	\$150,000									
SUB-TOTAL			\$1,012,000	\$887,114	\$1,210,626	\$581,029	\$317,147	\$672,565	\$765,000	\$264,725	\$713,836	\$25,501
											10 year total	\$ 6,449,573
											Required funding ten year	\$ 644,957



Major Equipment Replacement Schedule

Major Equipment Replacement Schedule



Major Equipment Replacement Schedule

GROUNDWATER PROTECTION FUND

The Groundwater Protection Fund (formerly the Environmental Fund) is established to provide funds, if needed, to address any adverse environmental effects on the surrounding area within the Host Community area that may result from the operation of the Smith Gap Regional Landfill. The fund also serves to assist in complying with post closure and corrective action requirements of state and federal financial assurance regulations.

The existing fund balance is \$500,000 and is adequate for the immediate five-year planning period as shown. No additional deposits are planned at this time.

Groundwater Reserve Fund

FISCAL YEAR	BEGINNING BALANCE	ANNUAL DEPOSIT	EXPENSES	ENDING BALANCE	USES
1999-20	500,000	0	0	500,000	No Activity
2000-01	500,000	0	0	500,000	No Activity
2001-02	500,000	0	0	500,000	No Activity
2002-03	500,000	0	0	500,000	No Activity
2003-04	500,000	0	0	500,000	No Activity
2004-05	500,000	0	0	500,000	No Activity
2005-06	500,000	0	0	500,000	No Activity
2006-07	500,000	0	0	500,000	No Activity
2007-08	500,000	0	0	500,000	No Activity
2008-09	500,000	0	0	500,000	No Activity
2009-10	500,000	0	0	500,000	No Activity
2010-11	500,000	0	0	500,000	No Activity
2011-12	500,000	0	0	500,000	No Activity
2012-13	500,000	0	0	500,000	No Activity
2013-14	500,000	0	0	500,000	No Activity
2014-15	500,000	0	0	500,000	No Activity
2015-16	500,000	0	0	500,000	No Activity
2016-17	500,000	0	0	500,000	No Activity
2017-18	500,000	0	0	500,000	
2018-19	500,000	0	0	500,000	No Planned Uses
2019-20	500,000	0	0	500,000	No Planned Uses
2020-21	500,000	0	0	500,000	No Planned Uses
2021-22	500,000	0	0	500,000	No Planned Uses
2022-23	500,000	0	0	500,000	No Planned Uses
2023-24	500,000	0	0	500,000	No Planned Uses
2024-25	500,000	0	0	500,000	No Planned Uses
2025-26	500,000	0	0	500,000	No Planned Uses
2026-27	500,000	0	0	500,000	No Planned Uses
2027-28	500,000	0	0	500,000	No Planned Uses
2028-29	500,000	0	0	500,000	No Planned Uses
2029-30	500,000	0	0	500,000	No Planned Uses
2030-31	500,000	0	0	500,000	No Planned Uses
2031-32	500,000	0	0	500,000	No Planned Uses

HOST COMMUNITY FUND

The Host Community Fund is established to fund the construction, operation, and/or maintenance of public improvements for the benefit of the Host Community which is defined as the area within a 5,000 ft. radius of the Smith Gap Regional Landfill property lines. Funded improvements will be established with input from the Host Community and set out in a public improvement plan as prepared and presented to the Authority by the Bradshaw Citizens Association (BCA).

Originally, annual deposits were made in the amount of \$10,000 on a monthly basis with the balance not to exceed \$150,000. However, the Host Community with assistance from Staff, increased the limit from \$150,000 to \$250,000 in FY 2014. The Host Community, through the BCA, is exploring its options for the use of the Host Community Fund. Existing and proposed funds are adequate for the immediate five-year planning period as shown.

Host Community Reserve Fund

FISCAL YEAR	BEGINNING BALANCE	ANNUAL DEPOSIT	EXPENSES	ENDING BALANCE	USES
1992-93	0	0	0	0	
1993-94	0	8,000	0	8,000	
1994-95	8,000	10,000	0	18,000	
1995-96	18,000	10,000	0	28,000	
1996-97	28,000	10,000	29,385	8,615	Computers (\$25,385), F&R (\$4,000)
1997-98	8,615	10,000	615	18,000	Playground Equipment
1998-99	18,000	10,000	0	28,000	
1999-20	28,000	10,000	0	38,000	
2000-01	38,000	10,000	0	48,000	
2001-02	48,000	10,000	0	58,000	
2002-03	58,000	10,000	0	68,000	
2003-04	68,000	10,000	0	78,000	
2004-05	78,000	10,000	0	88,000	
2005-06	88,000	10,000	0	98,000	
2006-07	98,000	10,000	0	108,000	
2007-08	108,000	10,000	0	118,000	
2008-09	118,000	10,000	0	128,000	
2009-10	128,000	10,000	0	138,000	
2010-11	138,000	10,000	0	148,000	No Planned Uses
2011-12	148,000	10,000	3,681	154,319	Intranet/property
2012-13	154,319	0	4,319	150,000	Intranet/capped
2013-14	150,000	10,000	525	159,475	No Planned Uses
2014-15	159,475	10,000	0	169,475	No Known Uses
2015-16	169,475	10,000	0	179,475	No Known Uses
2016-17	179,475	10,000	0	189,475	No Known Uses
2017-18	189,475	10,000	0	199,475	No Known Uses
2018-19	199,475	10,000	0	209,475	No Known Uses
2019-20	209,475	10,000	0	219,475	No Known Uses
2020-21	219,475	10,000	0	229,475	No Known Uses
2021-22	229,475	10,000	0	239,475	No Known Uses
2022-23	239,475	10,000	0	249,475	No Known Uses
2023-24	249,475	10,000	10,000	249,475	Misc. Expenses
2024-25	249,475	10,000	10,000	249,475	Misc. Expenses
2025-26	249,475	10,000	10,000	249,475	Misc. Expenses
2026-27	249,475	10,000	10,000	249,475	Misc. Expenses
2027-28	249,475	10,000	10,000	249,475	Misc. Expenses
2028-29	249,475	10,000	10,000	249,475	Misc. Expenses
2029-30	249,475	10,000	10,000	249,475	Misc. Expenses
2030-31	249,475	10,000	10,000	249,475	Misc. Expenses
2031-32	249,475	10,000	10,000	249,475	Misc. Expenses

PROPERTY PROTECTION FUND

The Property Protection Fund provides funds for payments under the Property Value Protection Policy for any actual decline in property values that may be directly attributed to their proximity to the Smith Gap Regional Landfill, as determined and outlined under the Policy.

The Property Protection Fund balance of \$370,430 is deemed to be sufficient for its intended purpose. Deposits to this fund may also be made from the proceeds of any property purchased and then resold under the terms of the Policy.

Existing funds are adequate for the immediate five-year planning period as shown unless there is a major unforeseen issue arising at the landfill.

Property Protection Reserve Fund

FISCAL YEAR	BEGINNING BALANCE	ANNUAL DEPOSIT	EXPENSES	ENDING BALANCE	USES
1998-99	504,061	0	1,962	502,099	Crawford , Johnson
1999-20	502,099	0	150	501,949	Appraisal - Brunk
2000-01	501,949	0	0	501,949	None
2001-02	501,949	0	125,317	376,632	Crawford , Johnson
2002-03	376,632	0	697	375,935	Miscellaneous
2003-04	375,935	92,258	25,000	443,193	Sale of Crawford, Markle
2004-05	443,193	0	0	443,193	None
2005-06	443,193	0	0	443,193	None
2006-07	443,193	0	0	443,193	None
2007-08	443,193	0	0	443,193	None
2008-09	443,193	0	0	443,193	None
2009-10	443,193	0	0	443,193	None
2010-11	443,193	0	0	443,193	None
2011-12	443,193	0	0	443,193	None
2012-13	443,193	0	0	443,193	None
2013-14	443,193	0	0	443,193	None
2014-15	443,193	0	45,950	397,243	Sale of 8385 Bradshaw Rd
2015-16	397,243	200,000	212,464	384,779	See Note Below
2016-17	384,779	0	150	384,629	Misc Expense
2017-18	384,629	0	0	384,629	None
2018-19	384,629	0	0	384,629	None Projected
2019-20	384,629	0	14,199	370,430	8827 Williby Road
2020-21	370,430	0	0	370,430	None Projected
2021-22	370,430	0	0	370,430	None Projected
2022-23	370,430	0	0	370,430	None Projected
2023-24	370,430	0	0	370,430	None Projected
2024-25	370,430	0	0	370,430	None Projected
2025-26	370,430	0	0	370,430	None Projected
2026-27	370,430	0	0	370,430	None Projected
2027-28	370,430	0	0	370,430	None Projected
2028-29	370,430	0	0	370,430	None Projected
2029-30	370,430	0	0	370,430	None Projected
2030-31	370,430	0	0	370,430	None Projected

SITE DEVELOPMENT FUND

The Site Development Fund provides funds for the construction of subsequent phases of the Smith Gap Regional Landfill cells.

For the current planning period (FY 23), funding levels are planned at \$1,700,000 due to the projected increase in commercial tonnages and the need to construct Phase VII in FY 2023. In order to better define the cost and the need for Phase VII, staff ha not only revisited the existing internal estimates but previously moved the engineering to the FY 22. Once the design and approvals are received, staff will have a better construction cost estimate and understanding of the Phase VII timeline. Currently, Phase VII construction is planned to be completed in early FY '24 based on the latest airspace modeling. This planned activity creates an estimated \$1,159,687 deficit in the short-term balance; however, there are sufficient funds in the Closure Reserve account to offset this projected shortage to construct Phase VII. The amount of air space used is reviewed every year and adjustments are made as necessary.

The Site Development Fund also serves to assist in complying with post-closure requirements of financial assurance regulations.

Site Development Reserve Fund

FISCAL YEAR	BEGINNING BALANCE	ANNUAL DEPOSIT	EXPENSES	ENDING BALANCE	USES
1998-99	3,019,000	500,000	314,000	3,205,000	Phase III/IV Construction
1999-20	3,205,000	500,000	914,591	2,790,409	Phase III/IV Construction
2000-01	2,790,409	500,000	660,033	2,630,376	Phase III/IV Construction
2001-02	2,630,376	500,000	104,491	3,025,885	Misc. Engineering
2002-03	3,025,885	500,000	105,973	3,419,912	Misc. Engineering
2003-04	3,419,912	500,000	167,375	3,752,537	Misc. Engineering
2004-05	3,752,537	500,000	47,057	4,205,480	Misc. Engineering
2005-06	4,205,480	500,000	41,582	4,663,898	Misc. Engineering
2006-07	4,663,898	500,000	904,313	4,259,585	Phase V Construction
2007-08	4,259,585	1,500,000	4,414,187	1,345,398	Phase V Construction
2008-09	1,345,398	500,000	1,096,295	749,103	Phase V Construction
2009-10	749,103	300,000	98,985	950,118	Phase V Construction
2010-11	950,118	100,000	0	1,050,118	No Expenditure
2011-12	1,050,118	100,000	0	1,150,118	No Expenditure
2012-13	1,150,118	500,000	0	1,650,118	No Expenditure
2013-14	1,650,118	500,000	0	2,150,118	No Expenditure
2014-15	2,150,118	500,000	0	2,650,118	No Expenditure
2015-16	2,650,118	500,000	0	3,150,118	No Expenditure
2016-17	3,150,118	500,000	598,125	3,051,993	Phase VI Construction
2017-18	3,051,993	700,000	2,576,778	1,175,215	Phase VI Construction
2018-19	1,175,215	850,000	14,235	2,010,980	Stormwater Study
2019-20	2,010,980	400,000	49,735	2,361,245	See Attached
2020-21	2,361,245	0	2,505	2,358,740	See Attached
2021-22	2,358,740	1,663,566	307,723	3,714,583	Phase VII Engineering
2022-23	3,714,583	1,796,379	6,574,270	-1,063,308	Phase VII Construction & PM
2023-24	-1,063,308	1,500,000	0	436,692	See Attached
2024-25	436,692	1,500,000	0	1,936,692	See Attached
2025-26	1,936,692	1,500,000	0	3,436,692	See Attached
2026-27	3,436,692	1,500,000	555,243	4,381,449	Phase VIII Engineering
2027-28	4,381,449	1,500,000	6,343,101	-461,652	Phase VIII Construction & PM
2028-29	-461,652	1,500,000	0	1,038,348	See Attached
2029-30	1,038,348	1,500,000	0	2,538,348	See Attached
2030-31	2,538,348	1,500,000	0	4,038,348	See Attached
2031-2032	4,038,348	1,500,000	0	5,538,348	See Attached

SMITH GAP LANDFILL

FISCAL YEAR	ACTIVITY	EXPENSES
2016-17	Phase VI Work started	\$ 904,313
2017-18	Phase VI Completed contruction management	\$ 4,414,187
2018-19	no activity	\$ -
2019-20	no activity	\$ -
2020-21	no activity	\$ -
2021-22	Engineering VII Liner (10.07 ac)	\$ 307,723
2022-23	Construction phase VII Liner (10.07ac) Construction management (CQ/CA)	\$ 5,869,884 \$ 704,386
2023-24	no activity	\$ -
2024-25	no activity	\$ -

**SITE DEVELOPMENT
COSTS
CONTINUED**

FISCAL YEAR	ACTIVITY	EXPENSES
2025-26		\$ -
2026-27	Engineering phase VIII Liner (8.8ac)	\$ 555,243
2027-28	Construction phase VIII Liner (8.8ac) Construction management	\$ 5,663,483 \$ 679,618
2028-29	no activity	\$ -
2029-30	no activity	\$ -
2030-31	no activity	\$ -

estimated costs		\$ 13,780,337
available funds	7/1/2022	\$ 3,714,583
additional funds required		\$ 10,065,754
	deposit years	5
annual deposits required		\$ 2,013,151

NOTES

Projections based on actual and estimated costs.

CAPITAL IMPROVEMENT FUND

In FY 2008 - 2009, The Capital Improvement Fund was established by the Authority, outside the Master Indenture of Trust, to be used for various capital maintenance items and new projects anticipated for the short and long-term ten-year planning periods. Examples of the projects include: Concrete floor overlay, facility updates (i.e. carpet/flooring, bathroom/locker room/break room remodels, re-surfacing all asphalt internal roads and parking lots, replacing the heating and cooling systems, renovation and maintenance of all existing building structures, construction of a residential service area, and possibly a new and additional automated, in-bound scale. Projects may be added or amended as the solid waste operations and industry continues to evolve and funds are available.

The Authority had previously identified several needs/upgrades to include, retaining walls, concrete overlay (both transfer stations), and roofing repairs. Some of the other capital outlay projects with the conversion are no longer needed and will be taken off of future reports. Staff is anticipating making some office improvements to the Tinker Creek Station prior to FY23 if funds are available.

There are no deficits shown in the five-year or ten-year planning period and funding levels are sufficient to fully fund all of the improvements that are identified on the following page. Staff will need to include a budget for pavement overlay of the spur road over a fifteen to twenty year time frame.

The Capital Improvement Fund also serves to assist in complying with post-closure requirements of financial assurance regulations.

Capital Improvement Reserve Fund

FISCAL YEAR	BEGINNING BALANCE	ANNUAL DEPOSIT	EXPENSES	ENDING BALANCE	USES
2008-09	260,000	200,000	0	460,000	No Planned Uses
2009-10	460,000	200,000	21,356	638,644	SG Dust & Od Control
2010-11	638,644	200,000	319,917	518,727	Tipper & TS Floor
2011-12	518,727	200,000	220,271	498,456	Tipper & Hollins Road
2012-13	498,456	100,000	108,900	489,556	Tipper & Roofing
2013-14	489,556	613,407	109,798	993,165	RSA Engring & Dirt, HVAC
2014-15	993,165	190,000	793,014	390,151	RSA & Roofing TS
2015-16	390,151	390,000	799,828	-19,677	RSA
2016-17	-19,677	390,000	120,314	250,009	RSA
2017-18	250,009	253,133	50,000	453,142	Bond \$ Deposit
2018-19	453,142	860,000	360,514	952,628	Misc Work
2019-20	952,628	0	741,546	211,082	Outbound Scale
2020-21	211,082	0	0	211,082	See Attached
2021-22	211,082	0	150,000	61,082	See Attached
2022-23	61,082	90,000	50,000	101,082	See Attached
2023-24	101,082	90,000	0	191,082	See Attached
2024-25	191,082	90,000	0	281,082	See Attached
2025-26	281,082	90,000	60,000	311,082	See Attached
2026-27	311,082	90,000	0	401,082	See Attached
2027-28	401,082	90,000	250,000	241,082	See Attached
2028-29	241,082	90,000	250,000	81,082	See Attached
2029-30	81,082	90,000	0	171,082	See Attached
2030-31	171,082	90,000	0	261,082	See Attached
2031-32	261,082	90,000	0	351,082	See Attached

Notes: Funds (\$423,407) from VDOT's purchase of the ROW were deposited in FY 2014
 Funds from Initial Bond debt in FY 2018 deposited to fund Rutrough Road Phase II water line and the stand alone pump station.

CAPITAL IMPROVEMENT
LIST

Project List	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Concrete Slab & Retaining Wall (Mulch)			\$ 60,000							
Overlay Floor (STS)					\$ 250,000					
Roofing Repairs (SG)	\$ 50,000									
Overlay Floor (ICTS)				\$ 250,000						
Building Renovations										
Totals	\$ 50,000	\$ -	\$ -	\$ 60,000	\$ -	\$ 250,000	\$ 250,000	\$ -	\$ -	\$ -

Totals
Annual Deposits Required \$ 610,000
\$ 61,000

RUTROUGH ROAD LANDFILL POST-CLOSURE FUND

The Rutrough Road Landfill Post-Closure Fund (RRLF PC Fund) was established with an initial contribution of \$5,500,000 per the terms of the “Implementation Agreement For (i) Distribution and Indemnification Agreement dated October 23, 1991 and (ii) Assignment Agreement dated October 23, 1991.” The sole purpose of the RRLF PC Fund was to provide the funding necessary for the Authority to manage the post-closure care of the closed Rutrough Road Landfill until (i) such time as the funds in the account are depleted; or, (ii) the Authority determines the account is no longer needed for its intended purpose, in which case, any funds remaining in the account shall be available for use by the Authority for any authorized purpose.

The RRLF PC Fund is essentially depleted. Funds will remain in the Rutrough Road account to cover pump replacement/repair or any other items that may arise. We anticipate that the remaining balance will be depleted by FY’23 this Reserve account will be deleted from future Budgets.

ROANOKE VALLEY RESOURCE AUTHORITY
 APPROXIMATE POST-CLOSURE CARE COSTS
 RUTROUGH ROAD LANDFILL
 FOR THE YEARS 1996 THROUGH 2020

Date: January 18, 2021

YEAR	Cap Maint. & ESC	ROAD MAINT.	MISC	GW SAMPLING			GAS SYST. O & M		LEACHATE O & M		CAPITAL	ADMIN EXPENSES	TOTAL EXPENSES	INITIAL DEPOSIT	INTEREST INCOME	FUND BALANCE	
				-\$	-\$	-\$	-\$	-\$	-\$	-\$							
1996	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 260,602	\$ 6,452,077	\$ 367,686	\$ 6,559,161	
1997	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 143,180	\$ 6,561,769	\$ 296,018	\$ 6,714,607	
1998	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 699,337	\$ 6,772,712	\$ 415,543	\$ 6,488,918	
1999	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 373,485	\$ 6,656,586	\$ 357,990	\$ 6,641,091	
2000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 274,596	\$ 6,502,918	\$ 454,557	\$ 6,682,879	
2001	\$ 5,239	\$ 559	\$ 7,705	\$ -	\$ 57,565	\$ 18,323	\$ 98,018	\$ 35,819	\$ 40,659	\$ 263,887	\$ 6,418,992	\$ 483,446	\$ 6,902,438				
2002	\$ -	\$ -	\$ 11,431	\$ -	\$ 50,100	\$ 8,402	\$ 61,006	\$ 4,985	\$ 47,553	\$ 183,450	\$ 6,718,988	\$ 215,808	\$ 6,934,796				
2003	\$ 36,853	\$ 21,141	\$ 6,479	\$ -	\$ 44,057	\$ 14,130	\$ 146,909	\$ -	\$ 52,589	\$ 322,159	\$ 6,612,637	\$ 118,499	\$ 6,731,136				
2004	\$ -	\$ -	\$ 7,231	\$ 5,347	\$ 83,773	\$ 11,443	\$ 173,053	\$ 108,874	\$ 59,301	\$ 454,021	\$ 6,277,115	\$ 87,268	\$ 6,364,383				
2005	\$ 3,800	\$ -	\$ 10,295	\$ 5,347	\$ 74,232	\$ 19,543	\$ 327,074	\$ 283,422	\$ 62,665	\$ 786,379	\$ 5,578,005	\$ 86,747	\$ 5,664,751				
2006	\$ -	\$ -	\$ 9,694	\$ 5,347	\$ 59,511	\$ 11,493	\$ 218,653	\$ 83,006	\$ 67,205	\$ 454,908	\$ 5,209,843	\$ 181,687	\$ 5,391,530				
2007	\$ -	\$ -	\$ 2,627	\$ 5,880	\$ 32,548	\$ 25,751	\$ 244,000	\$ -	\$ -	\$ 307,230	\$ 5,084,300	\$ 249,892	\$ 5,104,903				
2008	\$ -	\$ 3,500	\$ 16,682	\$ 6,500	\$ 34,172	\$ 9,480	\$ 129,604	\$ 27,736	\$ -	\$ 378,869	\$ 5,104,903	\$ 230,103	\$ 5,059,804				
2009	\$ -	\$ 1,658	\$ 4,202	\$ 8,815	\$ 43,774	\$ 17,230	\$ 187,143	\$ -	\$ -	\$ 262,822	\$ 4,842,081	\$ 104,100	\$ 4,901,082				
2010	\$ 19,927	\$ 3,491	\$ 32,078	\$ 8,815	\$ 112,082	\$ 30,869	\$ 327,489	\$ -	\$ -	\$ 534,751	\$ 4,366,331	\$ 25,384	\$ 4,391,715				
2011	\$ 7,775	\$ -	\$ 2,794	\$ 8,815	\$ 72,618	\$ 37,574	\$ 221,058	\$ 335,178	\$ 125,000	\$ 810,812	\$ 3,580,903	\$ 15,900	\$ 3,596,803				
2012	\$ -	\$ 6,456	\$ 4,410	\$ 8,905	\$ 58,716	\$ 33,548	\$ 323,970	\$ 125,000	\$ 561,005	\$ 3,035,798	\$ 9,261	\$ 3,045,059					
2013	\$ -	\$ -	\$ 2,056	\$ 12,254	\$ 80,760	\$ 26,184	\$ 206,912	\$ 56,992	\$ 385,158	\$ 2,659,901	\$ 7,470	\$ 2,667,371					
2014	\$ -	\$ 2,149	\$ 5,297	\$ 21,159	\$ 48,575	\$ 30,501	\$ 359,747	\$ 21,783	\$ 11,914	\$ 501,125	\$ 2,166,246	\$ 6,820	\$ 2,173,066				
2015	\$ -	\$ -	\$ 3,291	\$ 3,450	\$ 98,177	\$ 33,069	\$ 299,200	\$ -	\$ -	\$ 437,187	\$ 1,735,879	\$ 8,019	\$ 1,743,898				
2016	\$ -	\$ 6,027	\$ 4,155	\$ 9,475	\$ 75,090	\$ 28,604	\$ 306,400	\$ -	\$ -	\$ 429,751	\$ 1,314,147	\$ 7,993	\$ 528,192				
2017																	
2018																	
2019									\$ 427,182	\$ 101,010							
2020									\$ (15,444)	\$ 86,752	\$ 719	\$ 87,471					
2021									\$ (11,840)	\$ 75,631	\$ 719	\$ 76,350					
2022									\$ -	\$ 76,350	\$ 719	\$ 77,069					
2023																	
2024																	
2025																	
TOTAL	\$ 73,594	\$ 44,981	\$ 130,426	\$ 110,107	\$ 1,025,751	\$ 356,144	\$ 3,635,237	\$ 1,384,950	\$ 591,886	\$ 9,224,612	\$ 3,732,348						

For Information Only

ROANOKE VALLEY RESOURCE AUTHORITY
 POST-CLOSURE CARE ESTIMATES
 RUTROUGH ROAD LANDFILL
 FOR THE YEARS 2017 THROUGH 2026
 ASSUMED END OF POST CLOSURE CARE

Date: January 22, 2020

YEAR	Cap Maint. & ESC	ROAD MAINT.	MISC EXPENSE	MOWING	G/W SAMPLING	LEACHATE O & M	CAPITAL O & M	ADMIN EXPENSES	DEPOSIT	INTEREST	FUND BALANCE
2019	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2020	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2021	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2022	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2023	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2024	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2025	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2026	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$0	\$ -	\$ -	\$ -

The post closure care activities were transferred to the Authority's operating budget for FY 2019. The remaining post closure care funds are being used to comply with a DEQ letter of compliance. Please see project status reports.

Funds remaining for Leachate force main and lift station

All Operating cost have been moved to the annual budget and are funded from the administration accounts

CONTINGENCY FUND

The purpose of the Contingency Fund is to provide (i) rate stabilization on an annual basis; and (ii) emergency funding for unforeseen increases in expenses or decreases in revenues.

As noted in earlier in this report, Staff projects a balance of \$1,483,939 that will be available in the Contingency Reserve Fund as of the start of FY '23. The Authority's Policy has the goal of retaining 8-10% of its annual operating budget in its Contingency Reserve. This projected balance is 9.99% of the FY'23 operating budget of approximately \$14.9M and is therefore compliant with the Authority's Policy.

The Contingency Fund also serves to assist in complying with post-closure requirements of financial assurance regulations.

CONTINGENCY RESERVE FUND

FISCAL YEAR	BEGINNING BALANCE	DEPOSITS	TRANSFERS	BALANCE	COMMENTS
1993-1994	0	296,864	0	296,864	Surplus from Operations
1994-1995	296,864	836,358	0	1,133,222	Surplus from Operations
1995-1996	1,133,222	989,940	0	2,123,162	Surplus from Operations
1996-1997	2,123,162	335,254	0	2,458,416	Surplus from Operations
1997-1998	2,458,416	0	920,000	1,538,416	Transfer to Site Development
1997-1998	1,538,416	243,053	0	1,781,469	Transfer from Recycling Fund
1997-1998	1,781,469	1,017,184	0	2,798,653	Surplus from Operations
1998-1999	2,798,653	1,216,266	0	4,014,919	Surplus from Operations
1999-2000	4,014,919	1,808,425	0	5,823,344	Surplus from Operations
2000-2001	5,823,344	1,363,227	0	7,186,571	Surplus from Operations
2001-2002	7,186,571	0	494,012	6,692,559	Deficit from Operations
2002-2003	6,692,559	0	451,845	6,240,714	Deficit from Operations
2003-2004	6,240,714	224,069	0	6,464,783	Surplus from Operations
2004-2005	6,464,783	18,773	0	6,483,556	Surplus from Operations
2005-2006	6,483,556	276,040	0	6,759,596	Surplus from Operations
2006-2007	6,759,596	0	783,555	5,976,041	Transfer to Operating Budget
2007-2008	5,976,041	0	926,499	5,049,542	Transfer to Operating Budget
2007-2008	5,049,542	873,246	0	5,922,788	Surplus from Operations
2008-2009	5,922,788	0	1,289,635	4,633,153	Transfer to Operating Budget
2008-2009	4,633,153	70,441	0	4,703,594	Surplus from Operations
2009-2010	4,703,594	0	2,053,044	2,650,550	Transfer to Operating Budget
2009-2010	2,650,550	637,465	0	3,288,015	Surplus from Operations
2010-2011	3,288,015	0	3,171,248	116,767	Transfer to Pay Bond Debt
2010-2011	116,767	244,082	0	360,849	Surplus from Operations
2011-2012	360,849	244,000	0	604,849	Transfer from Post Development
2011-2012	604,849	1,140,111	0	1,744,960	Surplus from Operations
2012-2013	1,744,960	0	490,991	1,253,969	Transfer to Operating Budget
2012-2013	1,253,969	0	62,130	1,191,839	Transfer for Residential Area
2012-2013	1,191,839	425,662	0	1,617,501	Surplus from Operations
2013-2014	1,617,501	0	405,405	1,212,096	Transfer to Operating Budget
2013-2014	1,212,096	543,103	0	1,755,199	Surplus from Operations
2014-2015	1,755,199	0	456,323	1,298,876	Transfer to Operating Budget
2014-2015	1,298,876	812,290	0	2,111,166	Surplus from Operations
2015-2016	2,111,166	0	200,000	1,911,166	Transfer to Property Protection
2015-2016	1,911,166	0	434,974	1,476,192	Transfer to Operating Budget
2015-2016	1,476,192	986,254	0	2,462,446	Surplus from Operations
2016-2017	2,462,446	1,095,038	0	3,557,484	Surplus from Operations
2017-2018	3,557,484	1,246,947	0	4,804,431	Surplus from Operations
2018-2019	4,804,431	0	1,081,298	3,723,133	Deficit & transfer to Operations
2019-2020	3,723,133	0	0	3,723,133	Transfer to Operating Budget
2020-2021	3,723,133	0	0	3,723,133	Transfer to Operating Budget
2021-2022	3,723,133	0	2,239,194	1,483,939	NS Payment, Ops., LOC
2022-2023	1,483,939	0	0	1,483,939	Nothing Planned

Contingency Funds Available \$ 1,483,939

Proposed Transfer for FY 2022-2023 Budget \$ _____
Contingency Balance \$ 1,483,939