



MEMORANDUM

TO: Landfill Oversight Committee Members
FROM: Joe C. Wilder, Director of Public Works *JCW*
SUBJECT: Meeting of November 16, 2017
DATE: November 9, 2017

There will be a meeting of the Landfill Oversight Committee on Thursday, November 16, 2017 at 11:00 a.m. **in the conference room located on the second floor of the north end of the County Administration Building at 107 North Kent Street, Suite 200.** The agenda thus far is as follows:

1. Update on Existing Projects.
2. Discussion of Future Projects.
(Attachment 1)
3. Proposed Fiscal Year 2018/2019 Budget.
(Attachment 2)

JCW/kco

Attachments: as stated

cc: Committee Members
Kris Tierney, County Administrator
Jay Tibbs, Deputy County Administrator
Ron Kimble, Landfill Manager
Andrew Clark, Environmental Manager
Gloria Puffinburger, Solid Waste Manager
file

Future Projects at Landfill

Projected during the 2018/2019 budget process

(Based on projected waste disposal of 160,000 – 175,000 tons per year)

FY 18/19	60, 000 Generator Service	\$900,000
FY 20/21	Partial Closure CDD Landfill (10 Acre)	\$2,000,000
FY 22/23	New (1) Megawatt Generator	\$1,500,000
FY 22/23	Upgrade Power line to Substation	\$1,500,000
FY 24/25	Closure MSW Phase 2 Cell A/B (20 Acre)	\$4,000,000
	 Future Cell Development	
FY 20/21	Rough Grading and Rock Crushing	\$4,500,000
FY 21/22	Leachate Stone 50,000 ton @ \$25/ton	\$1,250,000
FY 21/22	Cell Construction MSW Phase 3 Cell A 11 Acres	\$2,750,000
 Total		 \$18,400,000

REFUSE DISPOSAL – LANDFILL

4204

DESCRIPTION:

The Frederick County Sanitary Landfill provides non-hazardous solid waste disposal needs for Frederick and Clarke Counties and the City of Winchester. The landfill property includes 932 acres of which 90 acres have been permitted under Subtitle “D” Regulations as a municipal solid waste facility, and 50 acres permitted as a Construction Demolition Debris waste facility. The additional acreage is maintained as borrow area and buffer.

In addition to operating the two permitted landfills, the facility operates a fully equipped Citizen’s Convenience Center offering disposal options for several waste streams including: household municipal, construction demolition debris, household hazardous waste, electronics, and numerous other recycling opportunities.

A program to convert landfill gas to electricity was established in 2010. Currently two Jenbacher model 320 engines are fueled by the landfill gas and are capable of producing approximately two megawatts of power. This program is designed to expand as the landfill continues to grow.

In addition, the landfill operates and maintains a leachate pretreatment system designed to collect and provide treatment from all three of the permitted landfills located at the facility.

GOALS:

- Maintain vegetative cover on exposed soils by overseeding and fertilizing, increase frequency of mowing established vegetation.
- Improve management of stormwater control features.
- Work with local wastewater treatment plants to improve sludge management procedures.
- Increase safety awareness of all landfill employees and continuing education of operators.
- Begin preliminary base grade excavation for construction Phase 3 Cell A MSW Landfill cell.
- Modify leachate system to better manage collection, treatment and disposal.
- Maintain and expand landfill gas collection system as needed to maximize collection efficiency.
- Expand landfill gas perimeter monitoring network around CDD landfill to maintain compliance.
- Conduct major overhaul of both Jenbacher engines to maintain manufacturer warranties.
- Maximize electrical production from landfill gas collected.
- Strive for waste reduction through recycling, composting, brush grinding, tire shredding, etc.

PERFORMANCE INDICATORS:

	FY 2017 Actual	FY 2018 Projected	FY 2019 Projected
Tons of waste weighed and disposed	167,617	160,000	170,000
Megawatt/hours of power generated from Gas to Energy Plant	11,989	10,512	10,512
Gallons of pretreated leachate collected and discharged	16,492,000	20,000,000	20,000,000
Tons of scrap metal recycled	1,294	800	1000
Tons of household hazardous waste collected	67	100	100
Tons of tires processed to rubber chips	1,205	1,100	1,100
Tons of yard waste processed to mulch	5,778	7,500	6,000

BUDGET SUMMARY:

	FY 2017 Actual	FY 2018 Approved Budget	FY 2018 Estimated Budget	FY 2019 Adopted Budget	Increase/Decrease FY 2018 App. To FY 2019	
					Amount	%
Costs:						
Personnel Operating	1,906,723	2,063,983			44,378	2.20%
Capital/Leases	2,087,508	2,857,258			-28,572	-0.99%
TOTAL	2,378,516	4,811,000			2,681,000	125.87%
	6,372,747	9,732,241	7,034,376	9,732,241	2,696,806	38.33%
Revenue:						
Fees						
State/Federal	7,338,267	6,734,695			345,225	5.40%
Local/Reserves	0	0			0	0.00%
TOTAL	0	2,997,546			2,351,581	364.04%
	7,338,267	9,732,241	7,034,376	9,732,241	2,696,806	38.33%
Full-time Positions						
	27	27			0	0.00%



11/01/2017 COUNTY OF FREDERICK		- B U D G E T -		E X P E N S E		ACCOUNTING PERIOD 2017/10	
FUND #-012 FRED . WINC LANDFILL FUND							
		Prior Years	Prior Years	Amended	Actual On	Dept Request	Admin
		FY/2016	FY/2017	Budget	2017/10	FY2019	Request
042040	LANDFILL						
042040 -000-000	REFUSE DISPOSAL						
042040-1000-000	PERSONNEL SERVICES						
042040-1001-000-001	COMPENSATION OF PUBLIC WORKS						
042040-1001-000-002	LANDFILL MANAGER	85,870	108,530	91,470	21,306	85,222	
042040-1001-000-003	ENVIRONMENTAL MANAGER	71,931	65,833	76,411	15,899	63,596	
042040-1001-000-004	ADMINISTRATIVE COSTS	142,955	170,175	151,566	32,010	128,040	
042040-1001-000-005	HEAVY EQUIPMENT MECHANIC	63,261	65,222	67,432	16,858	67,432	
042040-1001-000-036	SECRETARY III						
042040-1001-000-056	SCALE OPERATOR	57,689	38,839	39,072	9,768	39,072	
042040-1001-000-057	ADMINISTRATIVE ASSISTANT	42,099	43,714	45,195	11,299	45,195	
042040-1001-000-058	ASST.CONVENIENCE CENTER SUPER.	28,207	21,310	31,331	4,331	38,800	
042040-1001-000-066	SPOTTER	32,841	34,063	35,228	8,807	35,228	
042040-1001-000-067	MAINTENANCE MECHANIC ASSISTANT	15,425	32,930	34,015	8,504	34,016	
042040-1001-000-068	LABORER	7,225	29,705	30,711	7,678	30,712	
042040-1001-000-069	LANDFILL TECHNICIAN	35,311	31,293	36,786	8,977	33,506	
042040-1001-000-070	SR LANDFILL TECHNICIAN	39,202	40,460	41,861	10,465	41,861	
042040-1001-000-071	SR LANDFILL TECHNICIAN	43,323	27,138	44,923		44,923	
042040-1001-000-072	LANDFILL TECHNICIAN	36,795	38,212	39,463	9,866	39,464	
042040-1001-000-081	LANDFILL TECH	32,300	33,183	34,263	8,566	34,264	
042040-1001-000-082	LANDFILL TECHNICIAN	38,175	39,400	40,755	10,189	40,756	
042040-1001-000-083	LFG TO ENERGY PLANT OPER.	54,225	55,878	57,761	14,440	57,760	
042040-1001-000-084	LANDFILL TECHNICIAN III						
042040-1001-000-085	LABORER I 1/2						
042040-1001-000-086	LANDFILL OPERATIONS SUPV	58,244	60,084	62,151	15,538	62,151	
042040-1001-000-087	LABORER II						
042040-1001-000-088	LANDFILL TECHNICIAN	38,604	21,235	40,069	4,512	34,000	
042040-1001-000-089	SPOTTER	19,870	22,377	30,090	5,167	31,000	
042040-1001-000-090	CONVENIENCE SITE SUPERVISOR	29,111	46,537	48,136	12,034	48,136	
042040-1001-000-091	LABORER	27,009	27,761	28,676	7,169	28,676	
042040-1001-000-092	LABORER II						
042040-1001-000-093	SR LANDFILL TECHNICIAN	43,349	44,671	46,183	11,546	46,184	
042040-1001-000-094	ENVIRONMENTAL SAFETY TECH.	46,590	42,753	51,812	9,583	46,000	
042040-1001-000-095	LANDFILL TECHNICIAN	33,727	34,757	35,881	8,970	35,881	
042040-1001-000-096	LANDFILL TECHNICIAN	38,070	39,192	40,512	10,128	40,513	
042040-1001-000-097	LABORER	27,009	27,778	28,701	2,392	28,006	
042040-1001-000-098	LABORER						
042040-1003-000-000	PART TIME/EXTRA HELP	52,390	67,405	93,600	23,287	98,280	
042040-1005-000-000	OVERTIME	55,393	53,889	67,980	13,522	67,980	
042040-1005-000-001	OVERTIME - INVESTIGATIVE						
042040-1009-000-000	MERIT RESERVE						
042040-1099-000-000	CHANGE IN ACCRUED LEAVE	-8,341					
	PERSONAL SERVICE	1,287,859	1,364,324	1,472,034	322,811	1,426,654	

042040-2000-000-000	FRINGE BENEFITS						
042040-2001-000-000	F. I. C. A.	93,611	98,732	111,215	23,751	109,134	
042040-2002-000-000	RETIREMENT - V. S. R. S.	123,351	108,460	120,562	25,528	115,956	
042040-2005-000-000	HOSPITAL/MEDICAL PLANS	249,200	259,720	311,060	68,888	325,936	
042040-2006-000-000	GROUP INSURANCE	13,835	15,444	17,167	3,635	16,511	
042040-2007-000-000	ACCRUED VACATION PAY						
042040-2008-000-000	SHORT & LONG TERM DISABILITY	947	1,536	1,600	487	1,800	
042040-2011-000-000	WORKER'S COMPENSATION	54,001	57,463	62,762	12,270	47,688	
042040-2013-000-000	EDUCATION - TUITION ASSISTANCE						
042040-2099-000-000	FRINGE BENEFIT RESERVE						
	FRINGE BENEFITS	534,945	541,355	624,366	134,559	617,025	
042040-3000-000-000	CONTRACTUAL SERVICES						
042040-3001-000-000	PROFESSIONAL HEALTH SERVICES	229	1,400	1,500		1,500	
042040-3002-000-000	PROFESSIONAL SERVICES OTHER	309,849	433,315	440,000	71,452	500,000	
042040-3002-000-001	STATE PERMIT FEES	29,746	30,892	36,800	32,153	39,600	
042040-3002-000-002	PROFESSIONAL SVC - INVESTIGATI						
042040-3003-000-000	TEMPORARY HELP SERVICE FEES						
042040-3004-000-001	REPAIR AND MAINTENANCE-EQUIP.	69,233	24,601	170,000	6,655	130,000	
042040-3004-000-002	REPAIR AND MAINTENANCE - VEHIC	7,642	9,096	12,000	455	12,000	
042040-3004-000-003	REPAIR AND MAINTENANCE - BUILD	30,682	20,758	35,000	165	30,000	
042040-3004-000-004	REPAIR AND MAINTENANCE-GENERATOR	114,997	91,108	120,000	3,268	80,000	
042040-3005-000-000	MAINTENANCE SERVICE CONTRACTS	15,598	17,028	25,350	573	25,350	
042040-3005-000-001	GENERATOR OIL SAMPLING	2,724	5,435	6,500		6,500	
042040-3007-000-000	ADVERTISING	2,152	2,214	3,000	383	3,000	
042040-3010-000-000	OTHER CONTRACTUAL SERVICES	278,172	295,710	418,020	31,950	510,020	
042040-3010-000-001	CONTRACTUAL SERV. - TIRE PROGRAM	51,404	79,878	110,000	14,409	142,500	
042040-3010-000-002	RTOP OPERATIONAL COSTS						
042040-3010-000-003	REGIONAL ELECTRONICS RECYCLING	78,500	83,600	66,000	11,400	91,200	
	PURCHASED SERVICES	990,928	1,095,035	1,444,170	172,863	1,571,670	
042040-4000-000-000	INTERNAL SERVICES						
042040-4001-000-000	DATA PROCESSING SERVICES						
042040-4003-000-001	CENTRAL STORES-COPIES						
042040-4003-000-002	CENTRAL STORES-GASOLINE						
042040-5100-000-000	UTILITIES						
042040-5101-000-000	ELECTRICAL SERVICES	34,013	37,439	45,000	2,624	45,000	
042040-5101-000-001	ELECTRICAL SERV.-INTERCONNECTION	20,368	24,071	26,000	1,840	26,000	
042040-5102-000-000	HEATING SERVICES	3,952	8,803	6,000		10,000	
042040-5204-000-000	POSTAGE AND TELEPHONE	13,452	13,026	18,060	3,156	18,060	
042040-5204-000-001	POSTAGE AND SHIPPING-GENERATOR	1,473	1,749	5,000	181	2,160	
042040-5301-000-000	BOILER INSURANCE	723	699	798	738	798	
042040-5302-000-000	FIRE INSURANCE	13,952	14,850	17,000	16,374	17,000	
042040-5305-000-000	MOTOR VEHICLE INSURANCE	4,826	6,049	6,250	5,118	6,250	
042040-5306-000-000	SURETY BONDS	24	29	40	29	40	
042040-5308-000-000	GENERAL LIABILITY INSURANCE	5,197	6,005	6,500	5,743	6,500	

042040-5401-000-000	OFFICE SUPPLIES	8,707	6,806	10,000	1,653	10,000
042040-5403-000-000	AGRICULTURAL SUPPLIES	1,361	1,739	10,000		15,000
042040-5404-000-000	MEDICAL AND LABORATORY SUPPL	1,445	1,883	2,500	401	2,500
042040-5405-000-000	LAUNDRY & JANITORIAL SUPPLIES	3,804	3,489	6,000	761	6,000
042040-5407-000-000	REPAIR AND MAINTENANCE SUPPL	26,415	23,492	30,000	441	30,000
042040-5408-000-000	VEHICLE AND POWERED EQUIPMENT	103,683	97,967	150,000	12,528	180,000
042040-5408-000-001	VEHICLES-TIRES AND PARTS	1,379	282	4,500	392	4,500
042040-5408-000-002	VEHICLE-FUELS AND LUBRICANTS	160,235	163,651	303,700	24,556	303,700
042040-5408-000-003	GENERATOR SPARE PARTS	343,849	61,664	150,000	473	100,000
042040-5408-000-004	GENERATOR LUBRICANTS	34,065	28,978	48,740	10,783	48,740
042040-5410-000-000	UNIFORMS	5,712	5,828	7,000	636	23,450
042040-5410-000-001	SAFETY EQUIPMENT		462	4,500		2,500
042040-5411-000-000	BOOKS & SUBSCRIPTIONS		535	1,500	551	1,500
042040-5413-000-000	OTHER OPERATING SUPPLIES	13,869	9,989	10,000	4,267	12,000
042040-5413-000-001	OTHER OPERATING SUPPLIES-GENERAT	5,755	2,072	60,612	30,843	40,000
042040-5506-000-000	TRAVEL	9,832	3,945	12,000	925	12,000
042040-5506-000-001	LANDFILL GAS GENERATOR TRAINING	3,712		10,000	276	10,000
042040-5604-000-000	OTH. PAYMENTS OR CONTRIBUTIONS	167,807	174,088	160,000		170,000
042040-5800-000-000	MISCELLANEOUS					
042040-5801-000-000	DUES AND ASSOC.MEMBERSHIPS	1,622	1,433	2,000	1,116	2,000
042040-5806-000-000	RESERVE FOR CONTINGENCIES					315,892
042040-5806-000-001	POST CLOSURE COSTS	283,092	291,450	320,000		320,000
042040-5806-000-002	CONTINGENCY-TIPPING FEE ADJUST					
042040-5806-000-003	PAYMENTS TO LOCALITIES					
042040-5810-000-000	PAYMENT OF UNEMPLOYMENT CLAIMS			10,000		10,000
042040-5810-000-001	EEOC CLAIMS					
	OTHER CHARGES	1,274,324	992,473	1,443,700	126,405	1,751,590
042040-8001-000-000	MACHINERY AND EQUIPMENT					
042040-8002-000-000	FURNITURE AND FIXTURES					
042040-8003-000-000	COMMUNICATIONS EQUIPMENT			5,000		15,000
042040-8005-000-000	MOTOR VEHICLES AND EQUIPMENT		26,658	95,000	31,094	35,000
042040-8006-000-000	CONSTRUCTION VEHICLES & EQUIP	1	651,874	961,000		630,000
042040-8007-000-000	INTEGRATED TECHNOLOGY EQUIPMENT			5,000		5,000
042040-8009-000-000	MISCELLANEOUS EQUIPMENT		5,990	10,000		25,000
042040-8009-000-001	MISC.-LANDFILL GAS GENERATORS			20,000		10,000
042040-8700-000-000	LAND					
042040-8800-000-000	BUILDINGS					
042040-8900-000-000	IMPROVEMENTS OTHER THAN BUILDING		43,180	3,330,000		1,345,000
042040-8900-000-001	SITE DEVELOPMENT		1,650,776			
042040-8901-000-000	LOSS ON DISPOSAL					
042040-8999-000-000	INTEREST EXPENSE					
	CAPITAL OUTLAY	1	2,378,478	4,426,000	31,094	2,065,000
042040-9000-000-000	DEPRECIATION					
042040-9001-000-000	LEASE/RENT OF EQUIPMENT	621	38	40,000		40,000
042040-9500-000-000	DEPRECIATION OF EQUIPMENT	1,974,437		500,000		
042040-9500-000-001	DEPRECIATION OF EQUIP.-GENERAT			75,000		
	OTHER USES OF FUNDS	1,975,058	38	615,000		40,000

	TOTAL DEPARTMENT	6,063,115	6,371,703	10,025,270	787,732	7,471,939
093010 -000-000	TRANSFERS					
093010-2011-000-000	WORKER'S COMP FOR WELLNESS	77	44			
	FRINGE BENEFITS	77	44			0
093010-5807-000-001	MERIT RESERVE	1,970	1,000	-32,427		
093010-5807-000-002	MERIT RESERVE FRINGES					
	OTHER CHARGES	1,970	1,000	-32,427		0
	TOTAL DEPARTMENT	2,047	1,044	-32,427		0
	TOTAL FOR FUND	6,065,162	6,372,747	9,992,843	787,732	7,471,939

2018-2019 BUDGET INFORMATION - REVENUES

DEPARTMENT	LANDFILL	DEPARTMENT CODE			12-4204	
REVENUE LINE ITEM	FUNDING SOURCES	SOURCES OF FUNDS				TOTAL
		SVC-GENERATED/ OTHER REVENUE	STATE	FEDERAL	PROVIDED FROM LOCAL SOURCES	
1501-01	Interest on Bank Deposits	120,000				120,000
1502-01	Sale of Junk					75,000
	Scrap recycling	75,000				
1608-05	Sanitary Landfill Fees					6,562,000
	Based on Tonnage of 170,000					
	Commercial/Industrial					
	\$50/ton x 41% x 170,000 ton	3,485,000				
	Municipal					
	\$20/ton x 25% x 170,000 ton	850,000				
	Construction Demolition Debris					
	\$45/ton x 19% x 170,000 ton	1,453,500				
	Municipal Sludge					
	\$38/ton x 10% x 170,000	646,000				
	Rubble/Concrete/Rock					
	\$15/ton x 5% x 170,000	127,500				
Subtotal						6,757,000

2018-2019 BUDGET INFORMATION - REVENUES

DEPARTMENT	LANDFILL	DEPARTMENT CODE				12-4204
REVENUE LINE ITEM	FUNDING SOURCES	SOURCES OF FUNDS				TOTAL
		SVC-GENERATED/ OTHER REVENUE	STATE	FEDERAL	PROVIDED FROM LOCAL SOURCES	
1608-08	Tire Charges/Reimbursement Based on 1,500 ton of tires delivered yearly NSVRC (RTOP) Members $\$80 \times 25\% \times 1500 = 30,000$	30,000				142,500
	Commercial $\$100 \times 75\% \times 1500 = 112,500$	112,500				
1608-11	E-Cycle Collections Fees collected for the collection of electronics & unacceptable waste paid by haulers $\$3800 \times 2 \times 12 \text{ months}$	91,200				91,200
1608-13	Gas to Energy $\$29.76/\text{mwh} \times 1.5\text{mwh}/\text{hr} \times 80\% \times 8760\text{hrs}$	312,837				312,837
1608-14	Renewable Energy Credit $1.5 \times 8,760 \times 80\% \times \16.02	168,402				168,402
					Subtotal	714,939
					TOTAL	7,471,939

8-Nov

2018-2019 BUDGET INFORMATION - EXPENDITURES

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-1003	Part Time Help / Convenience Center Staffing Required extra help necessary for mowing, litter control, tire grinding and convenience center staffing. 6 people x 30 hr/week x \$10.50/hr x 52 weeks		98,280
12-4204-1005	Overtime / Holiday Work Overtime = 1716 hours/yr X \$30/hr = \$51,480 Holiday work = 550 hours/yr X \$30/hr = \$16,500	51,480 16,500	67,980
12-4204-3001-00	Professional Health Services Hepatitis B vaccinations for new hires		1,500
12-4204-3002-00	Professional Services 1. Surveying-Marsh & Legge 2. Environmental Monitoring, Sampling and CQA 3. Northern Shenandoah Valley Regional Commission 4. Gas Management Design Services-SCS Engineers 5. Leachate Treatment/Management Professional Services 6. Treasurer (credit Card Fees) 7. Engineering Services (Cell Construction)	50,000 125,000 20,000 150,000 20,000 10,000 125,000	500,000
		Subtotal	667,760

2018-2019 BUDGET INFORMATION - EXPENDITURES

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-3002-01	<p>State Permit Fees</p> <p>Title V Annual permit fee</p> <p>Solid Waste permit #40</p> <p>Solid Waste permit #591</p> <p>Solid Waste permit #529, \$.14 X 140,000 tons of MSW Waste</p> <p>Tire Processing</p>	<p>7,000</p> <p>1,500</p> <p>5,500</p> <p>19,600</p> <p>6,000</p>	39,600
12-4204-3004-01	<p>Repair and Maintenance - Equipment</p> <p>Repairs that need to be made to equipment because of inadequate facilities or tools that prevent landfill heavy equipment mechanic from performing work.</p> <p>Anticipate additional expenses due to age of equipment.</p>		130,000
12-4204-3004-02	<p>Repair and Maintenance - Vehicles</p> <p>This figure reflects the amount for installation of new tires and miscellaneous repairs and maintenance of vehicles that landfill heavy equipment mechanic cannot perform.</p>		12,000
12-4204-3004-03	<p>Repair and Maintenance - Buildings and Grounds</p> <p>This figure reflects the anticipated work related to maintenance for electrical service and fencing, litter fence and upkeep. Expenses have increased due to electrical repairs for pumps and associated equipment.</p>		30,000
		Subtotal	211,600

8-Nov

2018-2019 BUDGET INFORMATION - EXPENDITURES

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-3004-04	Repair and Maintenance - Generators (Gas to Energy) This figure represents repairs to be made to generators and ancilliary equipment by others.	80,000	80,000
12-4204-3005-00	Maintenance Service Contracts PraxAir \$300/month X 12 (Tank & welding supplies since all work is performed in house) Scale maintenance: Calibrate scales 2 X year @ \$2,125 each Fire X \$5,000 X 2 Events (Service on fire supression systems on heavy equipment) OSHA Certification on overhead crane and forklift Leachate Line Flushing	3,600 4,250 10,000 2,500 5,000	25,350
12-4204-3005-01	Generator Oil Samples Annual Subscription for weekly sampling		6,500
12-4204-3007-00	Advertising Includes ads for Household Hazardous Waste Collections, E-Cycle, Holiday closings and other special events.		3,000
8-Nov		Subtotal	114,850

2018-2019 BUDGET INFORMATION - EXPENDITURES

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-3010-00	<p>Other Contractual Services</p> <p>Rags / Rug Rentals \$750/month X 12</p> <p>Water Coolers</p> <p>5 gallon water containers 10- per week X \$6.00 each X 52 weeks</p> <p>Leachate Treatment</p> <p>Costs for monitoring, testing and maintaining leachate system (includes laboratory testing) \$800/week X 52 weeks</p> <p>Brush Grinding</p> <p>Private contractor to grind brush (two times/year) Assume 6,000 tons x \$15/ton= \$90,000</p> <p>Household Hazardous Waste</p> <p>Costs for Environmental Company to Package and Remove these special wastes. Estimate \$10,000 / month</p> <p>Wastewater Disposal Fees</p> <p>Leachate pumped to Opequon Water Reclamation Facility, Based on 20,000,000 gal/year X \$6.50/1000 gal</p> <p>Septage Pump and Haul \$300/month X 12</p> <p>Rock Crushing Aggregate</p> <p>*Separate approximately 4,000 tons concrete @ \$12/crushed ton</p>	<p>9,000</p> <p>3,120</p> <p>41,600</p> <p>90,000</p> <p>120,000</p> <p>130,000</p> <p>3,600</p> <p>48,000</p>	<p>445,320</p>
8-Nov		Subtotal	445,320

2018-2019 BUDGET INFORMATION - EXPENDITURES

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-3010-00	Office floor stripping and waxing (2x year @ \$750)	1,500	64,700
	Ductwork Cleaning 2x year (Office and maintenance shop)	1,200	
	CAT Subscription (To allow mechanic to work on equipment)	3,000	
	GPS Subscription - Trimble landfill module	9,000	
	Scrap Metal Hauling	50,000	
12-4204-3010-01	Tire Grinding- Local Tires		142,500
	Costs related to grinding tires by the Northern Shenandoah Planning Commission. Cost is offset by equal revenue reimbursement.		
12-4204-3010-03	Regional Electronics Recycling Program		91,200
	Costs related to disposal of wastes collected at E-Cycle programs		
	Estimate \$7,600/month x 12 months= \$91,200		
12-4204-5101-00	Electrical Services		45,000
	Increased based on the additional electrical load for stationary tire grinder		
12-4204-5101-01	Electrical Services - Interconnection Fees		26,000
	Fees paid to Rappahannock Electric Cooperative for use of power lines to transport power from GTE plant to utility substation.		
12-4204-5102-00	Heating Services (LP)		10,000
	Based on using LP gas rather than landfill gas		
		Subtotal	379,400

8-Nov

2018-2019 BUDGET INFORMATION - EXPENDITURES

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-5204-00	Postage and Telephone AT&T \$21/month X 12 X 5 Long Distance: \$100/month X 12 Two Way Radio Repeater Tower Rental \$175 X 12 Mobile Telephone Average Monthly Charge \$50/month X 12 X 10 Internet Fees \$75/month X 12 x 5 cellular modems Postage Average \$250/ month x 12 months = \$3,000	1,260 1,200 2,100 6,000 4,500 3,000	18,060
12-4204-5204-01	Postage and Shipping - Gas to Energy Oil Analysis shipping 52 weeks X \$30 Ship GEM for calibration 2 times/year	1,560 600	2,160
12-4204-5301-00	Boiler Insurance Air Compressors 3 X \$266	798	798
12-4204-5302-00	Fire Insurance	17,000	17,000
8-Nov		Subtotal	38,018

2018-2019 BUDGET INFORMATION - EXPENDITURES

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-5305-00	Motor Vehicle Insurance		6,250
	1997 Chevy S-10 (Tag# 30-798L)	625	
	2000 Dodge Van (Tag# 179-640L)	625	
	2006 Chevrolet Colorado (Tag# 130-750L)	625	
	2012 Ford F250 4x4 (Tag# 105-202L)	625	
	2012 Ford F250 4x4 (Tag# 152-325L)	625	
	2015 Ford F350 4x4 (Tag # 187-463L)	625	
	2016 Ford F250 4x4 (Tag# 179-895L)	625	
	2017 Ford F-150 4x4 (Tag# 197-603L)	625	
	2017 Ford F-450 (Litter Buggy, Tag#)	625	
	2018 Ford F-150 (Tag# 201-126L)	625	
12-4204-5306	Surety Bonds		40
12--4204-5308-00	General Liability Insurance		6,500
12-4204-5401-00	Office Supplies		10,000
	Computer paper, disks, scale tickets, etc.		
12-4204-5403-00	Agricultural Supplies		15,000
	Seed, fertilizer and mulch to establish vegetation on disturbed areas		
12-4204-5404-00	Medical and Laboratory Supplies		2,500
	To replenish existing first aid kits (Based on historical use)		
	Subtotal		40,290

8-Nov

2018-2019 BUDGET INFORMATION - EXPENDITURES

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-5405-00	Laundry and Janitorial Supplies Average \$500/ month x 12 months = \$6,000		6,000
12-4204-5407-00	Repair and Maintenance - Buildings and Grounds Gravel, signs, road salt, etc. Based on previous year cost and projected in-house projects		30,000
12-4204-5408-00	Repair and Maintenance - Powered Equipment Parts: \$15,000/month X 12 months		180,000
12-4204-5408-01	Miscellaneous (motor vehicles) For licensed vehicles (Based on average of previous years spending)		4,500
12-4204-5408-02	Fuels and Lubricants (Landfill) Gas: 200 gal/wk. X \$2.25 X 52 weeks Diesel: 2,000 gal/wk. X \$2.50 X 52 weeks Lubricants: engine oil, hydraulic fluids, grease, diesel exhaust fluid Antifreeze: 220 gal/year X \$15.00	23,400 260,000 17,000 3,300	303,700
12-4204-5408-03	Generator Spare Parts - Gas to Energy Costs associated with maintenance of generators and associated equipment, including air compressor, gas treatment skid, and flare based on historical averages.		100,000
		Subtotal	624,200

8-Nov

2018-2019 BUDGET INFORMATION - EXPENDITURES

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-5408-04	Generator Lubricants - Gas to Energy 6 oil changes/yr. 220 gal X \$16/gal X 2 units Glycol 500 gal/yr. X \$10 Misc Bearing Grease and Lubricants	 42,240 5,000 1,500	 48,740
12-4204-5410-00	Uniforms 20 people x \$1000yr = \$20,000 23 people x \$150yr /boot allowance = \$3450	 20,000 3,450	 23,450
12-4204-5410-01	Safety Equipment Personal Protective Equipment including safety vests, respirators, gloves and other equipment	 2,500	 2,500
12-4204-5411-00	Books and Subscriptions Safety Films	 1,500	 1,500
12-4204-5413-00	Other Operating Supplies Includes miscellaneous specialty tools Based on 5 year average	 12,000	 12,000
12-4204-5413-01	Other Operating Supplies - Gas to Energy Specialty Tools required to perform maintenance Siloxane removal media \$1000/ton X 30 tons	 10,000 30,000	 40,000
		Subtotal	128,190

8-Nov

2018-2019 BUDGET INFORMATION - EXPENDITURES

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-5506-00	Travel / Training Required training for maintaining landfill certification. Twelve people @ \$1000/ea. (Includes training costs, travel and per diem.)		12,000
12-4204-5506-01	Gas to Energy - Travel - Training Plant operator to attend Jenbacher training event and PJM certification training (2 operators @ \$2,500/class + travel expenses)		10,000
12-4204-5604-00	Payments to other Municipalities Distribution of recycling funds. Proportioned by Population Based on \$1/ton X 170,000 tons/year. Frederick County - 64.5% = \$109,650 Clarke County - 12.7% = \$21,590 Winchester - 22.8% = \$38,760	109,650 21,590 38,760	170,000
12-4204-5801-00	Dues and Memberships SWANA Membership (10 Members @ \$200/ea.)		2,000
12-4204-5806-00	Reserve for Contingencies		315,892
12-4204-5806-01	Post Closure Financial Assurance Financial Assurance required by State DEQ Estimated amount based on formula that is specified by DEQ		320,000
12-4204-5810-00	Payment of Unemployment Claims Estimated Amount		10,000
		Subtotal	839,892

8-Nov

2018-2019 BUDGET INFORMATION - EXPENDITURES

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-8003-00	Communication Equipment Funded at a minimum amount to replace radios as needed		15,000
12-4204-8005-00	Motor Vehicles and Equipment New F-150 Crew 4x4	35,000	35,000
12-4204-8006-00	Construction Vehicles and Equipment 35 ton Articulated off road truck Fork Lift - to replace unit @ convenience center	600,000 30,000	630,000
12-4204-8007-00	Integrated Technology Equipment (A.D.P.) Funded at minimum to replace equipment as needed		5,000
12-4204-8009-00	Miscellaneous (Landfill) New tools for shop New GEM gas meter	10,000 15,000	25,000
12-4204-8009-01	Miscellaneous Equipment - Generators (Gas to Energy) New specialty tools for gas plant	10,000	10,000
8-Nov		Subtotal	720,000

2018-2019 BUDGET INFORMATION - EXPENDITURES

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-8900-00	<p>Improvements Other Than</p> <p>Expand HHW Building</p> <p>Stormwater Improvements - Landfill Entrance</p> <p>Leachate Aeration Upgrade</p> <p>Block replacement & control upgrade for 2 Jenbacher engines</p> <p>Gas Wellfield Expansion</p> <p>Extend gas collection header and add additional horizontal collectors in active cell. Gas collection system for CDD Landfill.</p>	<p>80,000</p> <p>200,000</p> <p>15,000</p> <p>900,000</p> <p>150,000</p>	<p>1,345,000</p>
12-4204-9001-00	<p>Lease/Rent Equipment</p>		<p>40,000</p>
		<p>Subtotal</p> <p>Total Expenditures</p>	<p>1,385,000</p> <p>5,594,520</p>

8-Nov

2018-2019 CAPITAL REQUESTS

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-8003-00	Communication Equipment Funded at a minimum amount to replace radios as needed		15,000
12-4204-8005-00	Motor Vehicles and Equipment New F-150 Crew 4x4	35,000	35,000
12-4204-8006-00	Construction Vehicles and Equipment 35 Ton Articulated offroad truck Fork Lift - to replace unit @ convenience center	600,000 30,000	630,000
12-4204-8007-00	Integrated Technology Equipment (A.D.P.)		5,000
12-4204-8009-00	Miscellaneous (Landfill) New tools for shop New GEM gas meter	10,000 15,000	25,000
12-4204-8009-01	Miscellaneous Equipment - Generators (Gas to Energy) New specialty tools for gas plant		10,000

7-Nov

Subtotal

720,000

2018-2019 CAPITAL REQUESTS

DEPARTMENT	LANDFILL	DEPARTMENT CODE	12-4204
EXPENDITURE LINE ITEM	DESCRIPTION	DETAIL AMOUNT	TOTAL AMOUNT (PER LINE ITEM)
12-4204-8900-00	<p>Improvements Other Than</p> <p>Expand HHW Building</p>	80,000	1,345,000
	Stormwater Improvements - Landfill Entrance	200,000	
	Leachate Aeration Upgrade	15,000	
	Block Replacement & Control upgrade for 2 Jenbacher engines	900,000	
	<p>Gas Wellfield Expansion</p> <p>Extend gas collection header and add additional horizontal collectors in active cell. Gas collection system for CDD Landfill.</p>	150,000	
12-4204-9001-00	Lease/Rent Equipment		40,000
		Subtotal	1,385,000
		Total	2,105,000

7-Nov