



City of Grand Island

Tuesday, July 21, 2020

Study Session

Item -2

Presentation of Solid Waste and Wastewater Budgets for FY 2020-2021

Staff Contact: John Collins



Landfill on Husker Hwy @
Hall / Buffalo County Line

Solid Waste Division FY 2021 Budget



Jeff Wattier
Solid Waste Superintendent

Enterprise Fund

- Receive no funding from General Fund
- All revenues generated from tipping fees
- One of the few divisions with competition
- Serves residents and non-residents



Landfill Site Life

- 19 years life left in current area (Cells 1, 2, & 3)
- Approximately 27 years life left in total Phase 1 area



Notable Items from FY 2020

Continued routine capital replacement schedule

Transfer Station

- New wheel loader, truck, and transfer trailer

Landfill

- Used dozer for back-up machine



Notable from FY 2020

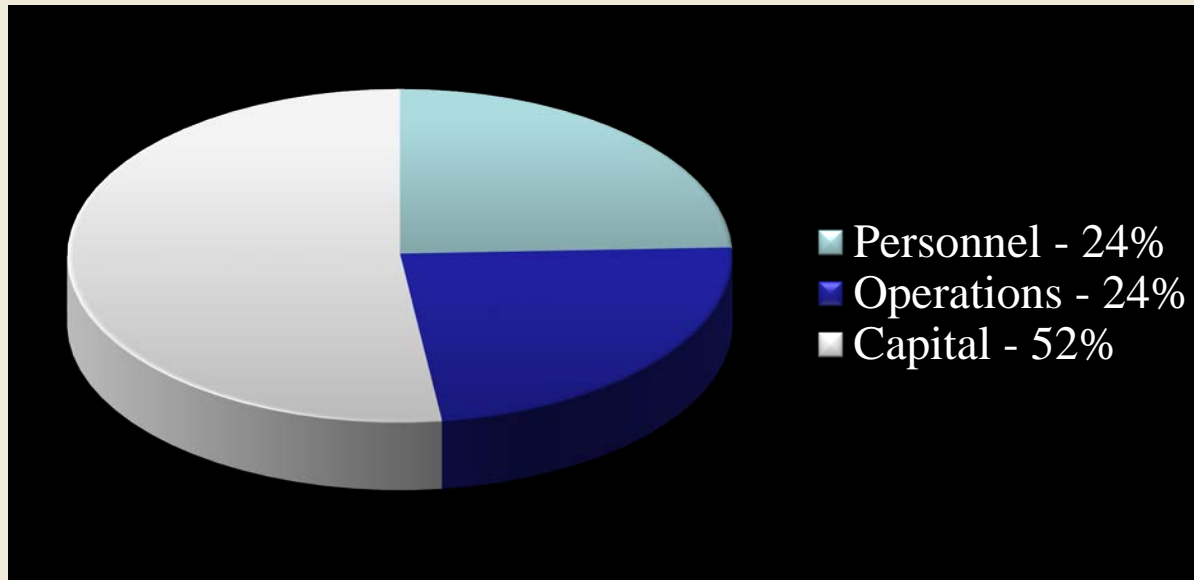
Transfer Station facility improvement study & rate study progressing

- Modify operations and facilities to better handle current and future customer traffic/tonnage
- Will be beneficial to customers and staff
- Will be presented to City Council at a later date



FY 2021 Budget

Personnel	= \$1,320,693
Operations	= \$1,274,938
Capital	= \$2,810,000







FY 2021 Budget Capital Expenditures

- Replacement of landfill compactor (\$675,000)
- Replacement of Utility vehicle/litter vacuum for landfill (\$75,000)
- Transfer station and landfill concrete replacement
- Old Phillips Landfill earthwork and re-capping per NDEE requirements (\$2,000,000)



FTE Request

1.0 Equipment Operator

-  Annual tonnage at the transfer station averaged 53,000 tons annually (FY2010/FY2011)
-  Annual tonnage has continued to increase, with last fiscal year reaching 68,000 tons received, which is 28% higher than the FY2010/FY2011 average
-  The increase equates to an additional 750 truck loads of waste hauled to the landfill in one (1) year
-  An additional equipment operator is imperative for keeping up with this significant work load on an annual basis.

Highlights of FY 2021 Budget

🌊 Rate increase proposed for FY 2021

🌊 5.23% increase at transfer station

<u>Location</u>	<u>Transfer Station Rate Per Ton</u>	<u>Landfill Rate Per Ton</u>
Grand Island	\$46.00 (uncompacted) \$37.02 (compacted)	\$34.76 (uncompacted) \$30.63 (compacted)
Columbus	\$69.00	
Norfolk	\$65.00	
Gering	\$70.00	
York		\$49.50
Holdrege		\$36.50
Hastings		\$41.00
Lincoln		\$38.65

Questions?



2021 Wastewater Budget

Jon Menough, Ph.D. P.E.
Wastewater Plant Engineer



Enterprise fund

- ☛ Treat wastewater generated by community residents, businesses and industries
- ☛ Meet all state and national requirements
- ☛ Funded solely through self generated revenue
- ☛ Average residential bill for 2019: \$30.89, well below the \$55.77 average*

*AWWA 2019 WATER AND WASTEWATER NATIONAL RATE SURVEY, AVG POPULATION 53,000

Wastewater Overview

Average: 13.2 million gallons per day (MGD)

- Peak flows over 36 MGD

F.O.G. (Fat, Oil, Grease) Monitoring

- Particularly damaging to the collection system

(Generates H_2S , degrading all pipes and manholes)



FY 2020 Capital Projects

Project	2020 Budget	2020 Forecast
Lab, Ops Control Center and Admin Building Reno	\$ 210,000	\$ 300,000
Biological Nutrient Removal Study	\$ -	\$ 1,994
Sanitary Sewer Modeling Study	\$ 170,000	\$ 171,160
Truck Wash Pad	\$ -	\$ 30,889
Online Monitoring	\$ -	\$ 2,790
Clarifier Renovation	\$ -	\$ 550,000
Facility Security	\$ 50,000	\$ -
WWTP Paving Improvements; 2020-WWTP-1	\$ -	\$ 200,000
Diffuser Replacement	\$ -	\$ 95,913
Sewer Rehabilitation	\$ 350,000	\$ 696,126
Lift Station No. 11 Relocation	\$ 400,000	\$ 429,936
Willow Street; Sanitary Sewer District No. 543	\$ 220,000	\$ 265,745
Sanitary Sewer Inflow & Infiltration	\$ -	\$ 142,977
North GI/ CNRA Improvements; Project No. 2017-S-4	\$ -	\$ 300,000
Ellington Pointe; Sanitary Sewer Dist No. 544	\$ 1,350,000	\$ 300,000
	\$ 2,750,000	\$ 3,487,531

2021 Capital Projects

Collection System Breaks	\$ 350,000
Aeration Basin Diffuser Replacement	\$ 50,600
Downtown Manhole Rehabilitation	\$ 367,500
WWTP Security System	\$ 50,000
Final Clarifier No. 2 Rehabilitation	\$ 275,000
WWTP Piping for JBS Flow	\$ 80,000
Micro C Distribution	\$ 10,000
North GI/ CNRA Improvements; Project No. 2017-S-4	\$ 872,000
Lab, Ops Control Center, & Admin Building Renovations	\$ 3,088,000
WWTP Paving Improvements	\$ 1,165,000
Relocate Lift Station No. 17	\$ 150,000
Ellington Pointe; Sanitary Sewer District No. 544	\$ 930,000
UV Diversion Gate Valve Replacement	\$ 50,000
	\$ 7,438,100

2021 Budget

Beginning Cash	\$ (20,578,189)
Revenue	\$ (13,476,493)
Total Revenue	\$ (34,054,682)
Operating Costs	\$ 7,932,624
Loan/Bond Payments	\$ 4,709,416
Capital Expenses	\$ 7,438,100
Total Expenditures	\$ 20,080,140
Ending Cash Balance	\$ (13,974,542)

2020 Capital Project Future Expenses

<i>Project</i>	<i>2021</i>	<i>2022</i>	<i>2023</i>	<i>2024</i>	<i>2025</i>
Collection System Breaks	\$ 350,000				
Aeration Basin Diffuser Replacement	\$ 50,600	\$ 51,200	\$ 51,800	\$ 52,400	\$ 53,000
Downtown Manhole Rehabilitation	\$ 367,500				
WWTP Security System	\$ 50,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000
Final Clarifier No. 2 Rehabilitation	\$ 275,000	\$ 80,000			
WWTP Piping for JBS Flow	\$ 80,000				
Micro C Distribution	\$ 10,000	\$ 200,000		\$ 237,500	
North GI/ CNRA Improvements; Project No. 2017-S-4	\$ 872,000	\$ 4,415,000	\$ 885,000		
Lab, Ops Control Center, & Admin Building Renovations	\$ 3,088,000	\$ 447,000			
WWTP Paving Improvements	\$ 1,165,000				
Relocate Lift Station No. 17	\$ 150,000	\$ 1,340,000	\$ 435,000		
Ellington Pointe; Sanitary Sewer District No. 544	\$ 930,000				
UV Diversion Gate Valve Replacement	\$ 50,000				
Online Monitoring		\$ 75,000	\$ 140,000	\$ 150,000	
Internal Recycle Pumps & Piping		\$ 2,402,500			
Sr High WS 22 Collection Lining		\$ 1,080,000			
Repair/Replace Aeration Basin Slide Gates		\$ 210,000			
S Interceptor CIPP & Manhole Rehabilitation			\$ 1,250,000		
Fill in Building 5 Sub-Levels				\$ 180,000	
5th & Evans Reroute- LS No. 6 Removal				\$ 4,800,000	
Vine St Line Rerouting				\$ 825,000	
Rate Study				\$ 270,000	
Replace Main Vine St, Koenig to Sutherland					\$ 910,000
	\$ 7,438,100	\$ 10,325,700	\$ 2,786,800	\$ 6,539,900	\$ 988,000

2020 Awards

🌊 NWEA Silver Safety Award
(6th Year in a Row)

🌊 NWEA Scott Wilber Award
BEST IN CLASS
(6th Year in a Row)

