



Allegheny County Sanitary Authority

Allegheny County, Pennsylvania

# Consulting Engineer's 2020 Annual Report Including the Fiscal 2021 Budget

November 2020



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Project No.: H/244032/001

# HATCH

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## **EXECUTIVE SUMMARY**

This annual report prepared for the Allegheny County Sanitary Authority (ALCOSAN) presents a review of the sewerage system operation and financial status for the year 2020. Additionally, this report outlines ALCOSAN's Capital Improvements Program and associated year 2021 Budget and includes the proposed year 2021 Revenue and Operating Expense Budgets.

The conclusions and recommendations of this report are as follows:

- A review of the monthly Discharge Monitoring Reports from all of the effluent quality requirements established by the National Pollution Discharge Permit (NPDES) permit. In March 2009, the monthly average flow limit increased from 200 million gallons per day (mgd) to 250 mgd with the completion of the dechlorination facilities. A renewal application for the NPDES permit was completed in 2013, and the final permit was issued on December 11, 2018. During the period of October 2019 through September 2020, the monthly average daily flow was 198.9 mgd, with maximum day flows of 250 mgd. Maximum day flows of 250 mgd were recorded in all months except for June, July and September 2020. The minimum monthly average flow of 162.4 mgd occurred in June 2020.
- The quarterly facility reviews conducted by Hatch indicate that the properties and equipment of ALCOSAN have been maintained in good repair and are in proper operating condition.
- The Capital Improvements Program proposed for 2021 consists of the implementation or completion of 37 active projects. These projects plus the \$2,024,200 allocated for low-cost capital improvements total \$826,047,600. It is anticipated that approximately \$148,192,700 will be expended on the 37 active capital projects during 2021.
- The proposed year 2021 budget anticipates revenues of \$192,878,300, operating expenses of \$103,183,700, transfer to capital facilities fund for cash funding of green infrastructure and other capital projects of \$6,000,000, and net operating income available for debt service of \$83,694,600. Net income, combined with the January 1, 2020 beginning Revenue Fund balance in excess of the minimum required fund balance, results in a debt service coverage of 3.90.
- In accordance with the Four-Year Rate Resolution (2018-2021) adopted in 2017, the Authority Board has approved a 7 percent increase in rates effective January 1, 2020. Therefore, it appears that there will be sufficient revenues to meet the Trust Indenture requirements and provide for proper operation, maintenance, and repair of the sewerage system during 2021.
- ALCOSAN's insurance policies are updated annually and satisfy the requirements of the Trust Indenture.

## **1. PURPOSE AND SCOPE**

Section 7.11 of the Trust Indenture dated July 1, 1997, as supplemented by a Second Supplemental Trust Indenture dated as of August 1, 2001, a Third Supplemental Trust Indenture dated as of December 15, 2002, a Fourth Supplemental Trust Indenture dated as of May 18, 2005, a Fifth Supplemental Trust Indenture dated as of July 1, 2007, a Sixth Supplemental Trust Indenture dated as of October 1, 2010, a Seventh Supplemental Trust Indenture dated as of September 1, 2011, an Eighth Supplemental Trust Indenture dated December 1, 2013, a Ninth Supplemental Trust Indenture dated September 1, 2015, a Tenth Supplemental Trust Indenture dated September 1, 2016, an Eleventh Supplemental Trust Indenture dated September 1, 2018, and a Twelfth Supplemental Trust Indenture dated September 1, 2020 by and between the Authority and the Trustee requires that the Authority employ a Consulting Engineer to, in addition to other duties, prepare and file an annual report containing the following:

- a) His advice and recommendations as to the proper maintenance, repair and operation of the Sewer System during the next Fiscal Year, his estimate for said Fiscal Year of the amounts of money that should be expended for Current Expenses and his estimate of the Gross Revenues of the Sewer System for such Fiscal Year;
- b) His advice and recommendations as to the Capital Additions that should be made during the next Fiscal Year, and his estimate of the amounts of money necessary for such purposes;
- c) His advice and recommendations as to the insurance to be carried under the provisions of Section 6.12 and a statement setting forth the various policies and the amounts thereof then in force, pursuant to the provisions of said Section 6.12;
- d) His recommendations as to any necessary or advisable revision of rates and charges; and
- e) His finding whether the properties of the Sewer System have been maintained in good repair and sound operating condition and his estimate of the amount, if any, required to place such properties in such condition and the details of such expenditures and the approximate time required therefore.

It is the intent of this report to satisfy the requirements set forth in Section 7.11 of the Trust Indenture dated as of July 1, 1997, inclusive.

## **2. SYSTEM REVIEW**

### **2.1 Operations**

The quarterly facility process evaluations conducted by Hatch provide a general overview of the operation and condition of the treatment plant and process equipment. Due to COVID restrictions this year the evaluations were not performed for each quarter as in past years. The evaluations conducted in this review period indicate that ALCOSAN facilities have been maintained in good repair and proper operating condition.

All the effluent quality requirements of the plant's National Pollution Discharge Elimination System (NPDES) permit relative to pollutant concentrations and mass loadings for the period of October 2019 to September 2020 were in compliance. No excursions of the permit limits were reported during the period under review.

ALCOSAN completed a renewal application for its NPDES permit for the treatment plant in 2013. A notice of the draft permit was published in the Pennsylvania Bulletin in September 2018 and the final permit was issued on December 11, 2018. The new permit is effective from January 1, 2019 through December 31, 2023.

During the period from October 2019 to September 2020, the monthly average daily flow was 198.9 million gallons per day (mgd), with a maximum day flow of 250 mgd. Maximum day flows of 250 mgd were recorded in all months except for June, July, and September 2020. The minimum monthly average flow of 162.4 mgd occurred in June 2020. Appendix A provides a summary of all plant loadings and operating performance from October 2019 through September 2020.

Under normal operating conditions, two to three of the six raw sewage pumps are in operation. All pumps are available for service. The pumps are rated at 120 mgd and are driven by 2,250 horsepower motors. Flow meters are being added on the discharge lines from the raw sewage pumps. Meters installation is complete for pumps 1 and 2 and is ongoing for pumps 3 and 4.

Scheduled routine maintenance was performed throughout the past year and occasional repairs to the headworks and primary sedimentation tanks were carried out as required. Throughout the review period, the overall removal efficiencies through the primary sedimentation tanks have been very good and relatively constant.

The activated sludge biological treatment process has been in continuous service and has operated in the contact-stabilization mode normally employed. Tanks are routinely taken out of service for inspection and maintenance of the air line piping and the fine bubble diffusers.

All final clarifiers were in use or available for service during the review period. The final clarifiers and all ancillary equipment are serviced in accordance with the preventative maintenance program.

The chlorination facilities have been effective in achieving the required disinfection of the final effluent discharged to the Ohio River. Similarly, the dechlorination facilities have adequately maintained compliance with the total residual chlorine limitation specified in the plant's discharge permit.

Sludge dewatering with the centrifuges has continued and performance has been excellent, producing a dewatered solids content of greater than 30 percent. The centrifuges and ancillary systems such as feed pumps, sludge grinders and the polymer feed system have performed well and are routinely maintained.

Various repairs were made to the fluidized bed incinerators last year including boiler replacement. Repair work has been completed and both incinerators are back on line.

A total of 22,800 dry tons of sludge and ash were disposed between October 2019 and September 2020. Of this total, approximately 15,680 dry tons were disposed in landfills and 7,120 dry tons were land applied. During this same period, approximately 18,670 dry tons of sludge were incinerated in the fluidized bed incinerators, producing approximately 6,230 tons of ash for disposal.

## 2.2 Maintenance and Repairs

ALCOSAN's facilities are well maintained by a planned maintenance program designed to keep the facilities in efficient operating condition. The facilities benefit from an excellent and conscientious housekeeping effort.

## 3. CAPITAL IMPROVEMENTS PROGRAM

ALCOSAN's Capital Improvements Program (CIP) is presented in Table 3-1. The CIP is financed through disbursement of Construction Fund moneys made available for certain projects as part of the 2018 and 2020 Series Bond Issues and cash funding mainly used to fund municipal green infrastructure and source reduction GROW projects. The CIP is updated and approved by the Board of Directors annually. The CIP projects can be broadly categorized as:

- Major repairs and rehabilitation work, which are necessary to maintain the capacities of the current facilities.
- System upgrades and improvements, which are intended to enhance the capacities or operating efficiencies of the treatment plant and the interceptor system.
- Long-term capital improvements required by ALCOSAN's Consent Decree.

Currently, there are 37 active capital projects and a low-cost capital improvements item, which are listed in Table 3-1. The current estimated cost of projects to be completed under the CIP is \$826,047,600, which includes \$2,024,200 in low-cost capital improvements.

The 37 active projects, minus the low-cost capital improvements, amount to \$824,023,400, with some \$723,872,536 remaining to be expended. It is anticipated that \$148,192,739 will be spent on the following active capital projects during 2021.

- Biosolids Strategic Plan—S408

ALCOSAN produces about 350 wet tons (or 100 dry tons) per day of biosolids. For the past 25 years, we have relied on a multifaceted strategy to manage this material including: incineration and producing a lime stabilized product for land application and landfilling. While this strategy continues to be effective, there are emerging challenges that threaten the longevity and redundancy of each of our handling options. For example, growing public opposition to land application, the implementation of federal and state regulations on incineration as well as land application, limitations imposed at preferred local landfills,

**Table 3-1  
Capital Improvements Program**

Proj. No.	Description	Current Estimated Cost	Total Expended To 12/31/19	2020 Estimated Expenditure	Remaining To Be Expended	2021 Capital Budget
<b>ACTIVE PROJECTS</b>						
S408	Biosolids Strategic Plan	\$1,525,600	\$4,371	\$100,000	\$1,421,229	\$500,000
S423	Plant Energy Efficiency Upgrades (2018-2019)	2,319,000	1,126,176	20,000	1,172,824	600,000
S430	Wet Weather Plant Expansion ( Program Costs)	49,000,000	8,384,093	3,000,000	37,615,907	6,500,000
S437	Ravine Street Stream Removal and Sewer Separation	4,929,800	104,663	67,200	4,757,937	43,000
S438	Four Mile Run Regulator (M29) & Outfall Improvements	3,804,000	145,739	10,000	3,648,261	200,000
S440	Green Revitalization of Our Waterways Program	64,073,800	1,074,558	118,000	62,881,242	13,990,000
S446	Regionalization	44,505,000	22,968,305	1,750,000	19,786,695	8,000,000
S447	Municipal Source Control Evaluation Program	5,942,600	3,968,020	713,000	1,261,580	1,053,100
S448	Interim Wet Weather Planning Compliance	22,850,000	8,056,092	1,500,000	13,293,908	2,000,000
S451	Property Acquisitions	41,029,000	161,894	3,500,000	37,367,106	9,000,000
S455	Green Infrastructure Program Manager	6,300,800	1,850,222	1,272,000	3,178,578	1,205,000
S456	Program Management Information System (PMIS)	9,000,000	1,654,866	500,000	6,845,134	500,000
S458	Conveyance, Rehabilitation & Enhancements (2018-2020)	4,003,900	1,164,061	1,145,800	1,694,039	1,694,039
S461	North End Facilities	141,000,000	5,196,930	18,500,000	117,303,070	33,000,000
S462	Wet Weather Headworks Expansion	136,000,000	1,991,176	5,200,000	128,808,824	12,000,000
S463	Solids Thickening and Dewatering Improvements	33,000,000	209	0	32,999,791	500,000
S464	New Lab and Industrial Waste Facility	54,000,000	258,832	1,100,000	52,641,168	14,000,000
S466	CSO Bypass and Disinfection	41,000,000	476	300,000	40,699,524	2,500,000
S467	Primary Tanks	38,000,000	0	0	38,000,000	500,000
S468	Electrical Distribution System Upgrade	\$17,000,000	\$233,159	\$400,000	\$16,366,841	\$2,000,000
S469	Sewer Rehab for Saw Mill Run & Non-Subaqueous Interceptor	20,100,000	96,734	788,000	19,215,266	16,082,600
S470	Flap Gate & Misc Regulator Improvements at Various Locations	3,122,000	91,775	250,000	2,780,225	2,250,000
S471	Remote Pump Station Improvements	6,076,000	10,913	179,100	5,885,987	2,173,800
S472	Plant and Safety Upgrade (2020-2021)	2,400,000	0	600,000	1,800,000	1,700,000

**Table 3-1  
Capital Improvements Program (Continued)**

Proj. No.	Description	Current Estimated Cost	Total Expended To 12/31/19	2020 Estimated Expenditure	Remaining To Be Expended	2021 Capital Budget
<b>ACTIVE PROJECTS (Continued)</b>						
S473	Energy Recovery Facility Improvements (2020-2021)	1,200,000	0	10,000	1,190,000	1,000,000
S474	New Access Shaft Manholes Near A-14 and M-49 Crossing	4,876,000	0	5,000	4,871,000	2,000,000
S475	Tunnel Program Management	25,481,000	0	5,000	25,476,000	5,000,000
S476	Precipitation Monitoring System Replacement and Upgrade	711,200	0	3,400	707,800	299,000
S477	Water Quality Monitoring Program	1,384,600	0	5,100	1,379,500	51,000
S478	Flow Targets	1,508,800	0	0	1,508,800	167,000
S479	Clay Street Sewer Separation	629,600	0	533,000	96,600	96,600
S480	Spring Garden	11,094,400	0	3,000	11,091,400	417,000
S481	Aeration Tank Diffusers	5,000,000	0	20,000	4,980,000	3,000,000
S482	Mobile Equipment 2021	574,600	0	0	574,600	574,600
S483	Conveyance Rehabilitation and Enhancements (2021-2022)	2,970,000	0	0	2,970,000	1,485,000
S484	Delafield Avenue DSI	5,130,700	0	0	5,130,700	1,111,000
S485	Ohio River Tunnel (ORT) Final Design Consultant	12,481,000	0	10,000	12,471,000	2,000,000
S000	2021 Low Cost Capital Improvements	2,024,200	0	0	2,024,200	2,024,200
	Subtotal	\$826,047,600	\$58,543,264	\$41,607,600	\$725,896,736	\$150,216,939
<b>2020 COMPLETED PROJECTS</b>						
S419	Mobile Equipment 2020	947,900	0	947,900	0	0
S432	Preliminary Planning	18,012,500	11,290,453	6,722,000	0	0
S454	Panther Hollow DSI	600	471	129	0	0
S459	Energy Recovery Facility Improvements (2018-2020)	2,300,000	1,105,340	1,194,660	0	0
S460	Plant Facilities and Safety Upgrade (2018-2020)	4,500,000	2,372,534	2,127,466	0	0
	Subtotal	25,761,000	14,768,798	11,037,155	0	0
	TOTALS	\$851,808,600	\$73,312,062	\$52,644,755	\$725,896,736	\$150,216,939

increasing energy costs, and greater importance placed on energy efficiency all create the need for a comprehensive strategy that will identify how to lead ALCOSAN's solids handling during the 21<sup>st</sup> century.

A Biosolids Strategic Plan will consider ALCOSAN's current biosolids management program in light of the foreseeable challenges, existing wet weather planning initiatives, industry best practices, as well as local opportunities to ultimately recommend a sustainable scenario for the next 15-20 years.

- Plant Energy Efficiency Upgrade—S423

This project will build upon many of the recent upgrades and ongoing activities to improve energy efficiency and to reduce operating costs throughout the wastewater plant. More recent and ongoing projects include participation in electrical demand response programs, facility upgrades to LED type lighting, rehabilitation of an existing steam turbine generator and city water usage evaluations. A finalized energy management study evaluated many of the renewable sources of energy such as solar, wind, hydro and thermal, for possible inclusion in the plant's overall energy efficiency strategy. The budget includes pilot projects in solar, likely installation of an O&M building rooftop array and an alternative vehicle fueling pilot evaluation. Other study components will be further considered as part of the Wet Weather Plant Expansion Program.

- Wet Weather Expansion Program—S430

In conjunction with the requirements of the EPA Consent Decree, ALCOSAN proposes an expansion of the existing treatment plant to a wet weather capacity of 600 million gallons per day, including an expansion of secondary treatment to 295 million gallons per day. The plant expansion alternatives were originally developed as part of the development of the wet weather plan that was submitted to the agencies in January 2013.

Expansion of the plant will include new expanded headworks, two new final secondary clarifiers including a new RAS pumping station, and a new chlorine contact tank and outfall. It also includes improvements to the plant dewatering process. The existing outfall will be modified to discharge bypassed wet weather flow and the existing disinfection process and odor control systems will be upgraded. The expansion will also include a tunnel dewatering pump station.

A Program Manager was procured in 2016 to advance the expansion of the plant facilities. The Program Manager assessed, verified and further evaluated the components of the plant expansion contained in the plan, as well as updated the estimated project costs. This included developing an operating sequence for initiating and exiting wet weather operations treatment modes. This also included coordinating the proposed plant work with the preliminary planning for improvements upstream of the plant under Capital Project Number S432 described hereafter. The Program Manager will evaluate components of the recent energy management study for potential incorporation into the plant expansion

improvements. The Program Manager devised a plan to package and sequence the design and construction projects.

During the design of the individual projects, the Program Manager reviewed the various design products, and participated in value engineering for each of the projects. The Program Manager verified estimates provided by the various design consultants. The Program Manager identified any needed update or expansion of the plant DCS operating system. The Program Manager used cost control measures to update and maintain budgetary goals.

In 2017, the Program Manager completed performance modeling and hydraulic modeling to validate the proposed plant expansion. The Basis of Design Reports were completed and included in the Water Quality Part 2 permit application to PADEP. In 2018, a Construction Manager was procured to assist in the packaging and review of design products. Procurement of design firms has begun and will continue into 2021.

- Ravine Street Stream Removal and Sewer Separation—S437

Removal of the Ravine Street stream inflow has long been a priority of ALCOSAN and other local stakeholders. The combined collection system in Sharpsburg receives streamflow and roadway runoff from two upstream municipalities (Shaler and O'Hara Townships) and PennDOT. In 2015, PennDOT initiated a final design project for the stream removal that includes significant flow redirection and sewer separation. ALCOSAN, Sharpsburg, O'Hara Township and Shaler Township have committed funds to the construction portion of the project. State Senators and State Representatives are also committing funds to this very important local project. In August 2020, PennDOT let the contract and opened bids in September 2020. Construction is expected to be complete in Summer 2022.

- Four Mile Run Regulator (M-29) and Outfall Improvements—S438

Four Mile Run is an urban watershed tributary to the Monongahela River in the City of Pittsburgh that experiences chronic urban flooding. In September 2015, Service Authorization No. 280-4 was approved for Chester Engineers to provide for engineering services to evaluate and provide for the conceptual design of modifications to the M-29 Outfall Structure. A LIDAR imaging scan was performed to create a CADD drawing of the regulating chamber and Outfall. As a result of the field inspection, the outfall was found to be in poor and failing condition.

Concurrently with the field inspections and survey, Chester Engineers conducted hydraulic modeling, alternatives analysis, and costing comparisons of five alternatives. As a result of the alternatives analysis, the stakeholders agreed that an effort to repair the outfall pipe, lower the weir and add a flap gate provided the best immediate value. The Pittsburgh Water and Sewer Authority (PWSA) requested to take the lead on construction of this project and a revised cost sharing and cooperation agreement is being developed. This

budget is allocated to provide for reimbursement to PWSA for construction of ALCOSAN associated infrastructure.

- Green Revitalization of Our Waterways Program—S440

This program provides funding assistance for municipal source control projects over the next several years. Municipalities and/or municipal sewer authorities are eligible to participate. Other stakeholders such as local, county and state agencies are eligible for participation (e.g., school districts) provided they enter into a partnership agreement with the respective ALCOSAN Customer Municipality.

The form of funding assistance agrees with ALCOSAN's legal and fiduciary obligations. Matching funds could be maximized at 85% of eligible project costs, thereby requiring a municipal match, which could come from the municipality or outside funding source such as grants or loans. ALCOSAN's maximum match per project is \$10M.

The funding could vary between projects based on such factors as anticipated overflow reduction and source reduction benefits. Each project application will be evaluated to take into account program goals, community and environmental benefits, municipal financial capability, etc.

The funded projects are required to establish technical standards and an ongoing 20-year maintenance program to assure the functionality of the reduced storm water. Post-construction project evaluation and reporting must be conducted and presented in a final report.

- Regionalization—S446

ALCOSAN is engaging its member municipalities to transfer ownership and maintenance responsibility for certain inter-municipal trunk sewers. ALCOSAN has been collecting relevant municipal information in an effort to identify any additional sewers that are multi-municipal, evaluate the location and condition of the sewers for transfer; determine approximate extents, exhibits, and mapping for the transfer agreements. ALCOSAN has also been meeting with local municipal officials and engineers in an effort to understand any concerns that may affect the agreements or the schedule. As of October 2018, approximately 267 miles of trunk sewers which meets the criteria are being considered for transfer. Also included are 79 diversion chambers, four pump stations, and four equalization tanks, which have been proposed as part of the asset transfer.

ALCOSAN will continue meeting with municipal officials and engineers in 2021 to implement the transfer of these sewers and facilities.

- Municipal Source Control Program—S447

The Municipal Source Control Program will quantify dry and wet weather wastewater flow in municipal collection systems. In addition, the program will furnish, install, and operate

all equipment necessary to obtain nighttime flow isolation weir readings per the quantity and manhole structures determined by ALCOSAN. The goals of this program are to:

- Provide wastewater flow monitoring data necessary to develop a comprehensive understanding of existing municipal collection system hydrology and hydraulics, system responses during dry weather periods and various wet weather events.
- Provide nighttime instantaneous flow rate readings in order to 'isolate' smaller areas of the municipal collection systems that are contributing significant amounts of system infiltration.
- Support planning and design work associated with implementation of ALCOSAN's Clean Water Plan (CWP), forthcoming municipal regulatory requirements, and municipal flow targets.

This program will conclude Summer 2022.

- Interim Wet Weather Planning Compliance—S448

ALCOSAN submitted a Wet Weather Plan to the regulatory agencies in January 2013 as required by the 2008 Consent Decree. ALCOSAN and the agencies then negotiated an amendment to the Consent Decree that requires ALCOSAN to perform additional obligations that include implementing a 2.0 billion dollar Interim Wet Weather Plan of capital improvements to the ALCOSAN system. It requires technical and management services to assure compliance and cost-effective procedures while implementing the proposed Interim Wet Weather Plan improvements including coordinating the efforts of others charged with the individual programs and components of the Plan. It requires creating methodologies to support the management of municipal flows, apply risk management principles to budgets and schedules, using adaptive management strategies and incorporating the results from municipal green stormwater management plans and infiltration/inflow source reduction programs.

In 2018, ALCOSAN received information and reports from the customer municipalities that were generated by regulatory orders. ALCOSAN, with assistance and input from its consultants, will perform hydraulic analyses and flow modeling to estimate municipal flow quantities, frequencies and durations of wet weather overflows under varying scenarios influenced by the municipal flow reduction programs and potentially identify any modifications to the negotiated Interim Wet Weather Plan Capital Program.

Over the next several years, ALCOSAN and its consultants will be performing similar reviews of municipal information, monitor economic and environmental changes and prepare reports to the agencies and customer municipalities. Periodic updates to existing population, estimated costs, financial burdens and infrastructure information are also anticipated. This capital account will be used to support these tasks and activities.

- Property Acquisitions—S451

The Property and Right of Way Acquisition Services consists of the steps necessary for the acquisition of properties and easements required for the construction, operation, and maintenance of improvements associated with the Clean Water Plan (CWP), Green Infrastructure Program and Regionalization. Work shall include the following activities:

- Title information gathering for properties identified by ALCOSAN, and an update of title as necessary prior to closing of any property acquisition or condemnation.
- Surveying services, as needed, ALTA surveys.
- Preparation of real property legal descriptions.
- Preparing a property history report including prior uses, subsurface information, potential archaeological or historic site designation, local zoning and land use requirements, special neighborhood designations, utility easements, flood insurance map determinations, potential land development or redevelopment.
- Environmental Site Assessments, as needed.
- Determining appraisal values of properties and preparing appraisal reports to be used in the course of negotiations and condemnations.
- Preparing all acquisition documents and maintaining all property acquisition files.
- Negotiating with owners of record for the acquisition of such property.
- Public and Municipal Coordination.
- Calculating estimated acquisition and closing costs.
- Leading condemnation procedures and testifying as needed for such condemnations.
- Closing real property acquisitions upon receipt of ALCOSAN's approval.
- Such other services as may be required by ALCOSAN.

- Green Infrastructure Program Manager—S455

As part of the initiatives laid out in the “Starting at the Source” report, ALCOSAN procured a program management team in 2017 to advance the goals and objectives of ALCOSAN's source control initiatives such as green stormwater infrastructure and control of inflow and infiltration.

The Green Infrastructure Program Manager (PM) assists ALCOSAN by providing support in implementing the GROW Program (S440) through review of grant applications, development of guidelines, computer modeling, and an evaluation of the impacts GROW projects have on the Interim Wet Weather Plan.

A regional stormwater study titled “Controlling the Source” (CtS) was released to the public in July 2020. This report documented methodologies to identify potential source reduction

opportunities in the ALCOSAN Service Area. Specific municipal opportunities to implement source control projects were also identified. These opportunities could develop into potential GROW projects where ALCOSAN can evaluate the potential impacts these source control projects may have on the Interim Wet Weather Plan and eventual municipal consent orders.

Originally budgeted for three years, this capital account is incorporating ALCOSAN's option to extend the Service Authorization of the Green Infrastructure Program Manager for an additional two years.

- Program Management Information System (PMIS)—S456

ALCOSAN has identified the need for an electronic Program Management Information System (PMIS) to support the implementation of ALCOSAN's Wet Weather Plan and associated programs.

E-BUILDER, including 100 user licenses, were purchased through the Program Director in mid-year 2017. And additional 75 licenses were purchased in 2020.

Mapping of the business processes, software configuration, training and start-up of the system components commenced in September 2017 with completion in 2018. Project management, shop drawing review, cost control and processing professional service invoices, construction pay applications and change orders are now exercised through E-BUILDER. Report generation is available for various parameters. Transfer of documents from the existing ECM to storage space in E-BUILDER has been completed.

Training and implementation continues as several of the plant expansion projects have moved into the construction phase. Monthly E-BUILDER training sessions are held, and process updates are made as necessary to address questions.

- Conveyance, Rehabilitation, and Enhancements (2018-2020)—S458

This capital project conducts small capital improvements and repairs in the ALCOSAN Regional Conveyance System. Rehabilitation and enhancement work will continue based upon recommendations from the Interceptor Systems Department. Projects identified for 2020 included the modifications to the regulators and outfalls at M-59, M-60 and A-17 to include extension of the outfall and installation of a bulkhead guide. This budget also includes safety improvements and repairs to various regulating structures and a grouping of miscellaneous projects to be bid in one contract: encasing the C-27 shallow cut interceptor, T-27 regulator modifications, installation of a manhole at A-78-02, repairs to M-04 connector sewers, replacement of the S-39 connector sewer and abandonment of the A-55, A-63 and T-33 diversion structures. Design work for HVAC, electrical and concrete repairs at the O-07 access shaft and defect repairs at the O-32 drop shaft was performed under this project. Relocation of interceptor sewer and manhole O-01-04, as performed under PennDOT's Island Avenue work was also included in this project.

- North End Facilities: New Outfall, Disinfection Facility, and Secondary Clarifiers—S461

With the increase of dry weather flow capacity to 295 million gallons per day the plant will not have the hydraulic capacity to continue to discharge flow through the existing outfall. The hydraulics dictate that the flow must be redirected to a new outfall at the north end of the plant. The project will require a new river wall, demolition of the existing hypochlorite facility, construction of a new chlorine contact tank and outfall, as well as a sodium bisulfite facility to remove excess chlorine. New chemical buildings and storage tanks will also be part of the project. A new electrical substation will also be required. Two new Secondary Final Clarifiers will be constructed to increase secondary treatment capacity to 295 million gallons per day. A new return sludge (RAS) pump station will be constructed to pump the RAS from the new clarifiers back to the aeration basins. The existing RAS pumps and piping will also be replaced to handle the increased flows through the existing piping. A new river wall will need to be constructed to build the western clarifier along the river. The construction contracts have been awarded. Work in 2021 will focus on construction of the river wall, the East Mixed Liquor Channel extension and the new Chlorine Contact Tank. Construction will continue through 2025.

Contracts to upgrade the existing RAS pump stations with larger pumps and replacing the RAS piping with larger pipe have been awarded. This will allow for increased flow from the new secondary clarifiers. Flow control valves will be added to better split the RAS flows to the various aeration tanks. Construction will last through 2021.

- Wet Weather Headworks Expansion—S462

The wet weather capacity of the expanded plant will exceed the capacity of the existing Headworks. Seven new grit tanks, as well as the accompanying bar screens will be constructed. The tanks and bar screens will be in a newly constructed building. There will also need to be a new grit truck unloading station in the building. New conduits to and from the new Headworks will have to be constructed to convey the increased wet weather flows. Installation of these conduits will require relocation of portions of the pipe galleys. Additionally, flow meters and diverter valves will be installed on the existing pump discharge lines for operational controls and reporting purposes. In addition, a new siphon drop box will be constructed to combine flows from the various pumps to convey flow to the new Headworks. The existing odor control system will be modified to accommodate the increased are volume. Construction will begin in 2021 and last through 2024.

The flow meter installation has been bid separately and is under construction and will be completed in 2021.

- Solids Thickening and Dewatering Improvements—S463

The increased wet weather flow through the primary sedimentation tanks will exceed the recommended PADEP guidelines for co-setting of Waste Activated Sludge (WAS) in the tanks. The WAS will have to be thickened before being blended with the primary sludge in the dewatering process. New thickening centrifuges will be furnished and installed,

including constructing a new mezzanine level for the location of the centrifuges. Ancillary pumps and polymer feed system will be required, as well as piping and new WAS pumps. Electrical equipment in the Dewatering building will need to be upgraded. In addition, the existing dewatering centrifuges are near the end of their expected life and will be replaced.

The design is expected to begin in 2021. Pilot testing to pre-qualify centrifuge vendors to occur in 2021.

- Environmental Compliance Facility—S464

Construction of the two new primary sedimentation tanks to increase wet weather capacity will require demolition of the existing Laboratory and Industrial Waste buildings. A new facility to house both the laboratory and the industrial waste personnel will be constructed. The new Environmental Compliance Facility will be located on the site of the existing Union Parking lot. A new parking garage will be constructed on the site as well to replace the parking spots lost to the lab footprint. Design began in 2020. Garage construction will be in 2021 into 2022. The Environmental Compliance Facility construction will begin after garage completion and extend through 2023.

- CSO Bypass and Disinfection—S466

The increased wet weather capacity at the treatment plant will be achieved by bypassing flows that exceed secondary capacity to a wet weather outfall. The current chlorine contact tank will be modified to reverse flows through the existing tank and constructing a new outfall at the north end of the tank. The project will require a new chemical feed and storage system for disinfection of the wet weather flows. Also, a flow control structure and conduit will be required to route the bypass flows. Design is underway and will continue in 2021.

- Primary Sedimentation Tanks—S467

Two new Primary Sedimentation Tanks will be constructed to increase wet weather capacity to 600 million gallons per day. The existing E-2 Primary Pump Station will be reconfigured to add a new pump. The existing primary pumps will be replaced.

- Plant Electrical Distribution System Upgrade —S468

The new Wet Weather Pump Station will likely be constructed in the same location as the existing 5KV substation. A new 5KV substation will be constructed to replace the existing Substation. As a result, this project will refeed and reconfigure the electrical distribution systems to re-feed existing loads currently fed from the existing 5KV substation, as well as prepare the Plant for the increased electrical loads associated with the Plant Expansion. Design began in 2019. Construction will begin in 2021 and be completed in 2022.

- Sewer Rehabilitation for Lower Saw Mill Run and Monongahela Subaqueous Interceptors—S469

This capital project includes the design and installation of 17,000 feet of cured-in-place (CIPP) lining and manhole rehabilitation for the Saw Mill Run Interceptor between MH-45

and O-14W and 7,000 feet for the Monongahela Subaqueous Interceptor between M-44 and M-42A, to include the M-44, M-43 and M-42 connector lines along with the Streets Run Interceptor. The installation of several new access ports will be required for the Monongahela Subaqueous Interceptor lining. Two consulting firms are currently proceeding to final design. Two separate contracts will be let in late 2020 and will be completed in 2022.

- Flap Gate and Miscellaneous Regulator Improvements at Various Locations (2019-2021) —S470

With upwards of 235 flap gates in the Regional Conveyance System, these gates require ongoing maintenance and replacement due to corrosion and deterioration. Many of the gates are leaking allowing chronic water inflow in the treatment system. This additional water translates into additional pumping and treatment costs at the ALCOSAN wastewater treatment plant.

The ALCOSAN Manager of Interceptor Systems identifies flap gates requiring maintenance. Similar to previous contracts, a contractor will be required to dewater, assess the concrete strength, verify chamber and gate dimensions, prepare shop drawings and conduct installation of new gates and appurtenances. Gates being programmed for replacement this period include A-60, A-68, M-45, A-41, M-03, A-31, O-34, and M-52.

- Remote Pump Station Improvements —S471

This capital project includes improvements to the Melanchton Ejector Station, Corliss and Ella Street Pump Stations. At Melanchton Ejector Station, a contract will include replacing the ejector with a small submersible package station. Improvements at Corliss Pump Station include replacement of HVAC equipment, internal piping and the possible installation of a permanent bypass pumping structure. At Ella Street, improvements to be investigated include installation of an emergency sewer bypass, determining optimal pumping configuration to reduce pump cycling, addition of a new variable frequency drives for pumps, backflow prevention, replacement of the mechanical bar screens, upgrades to the sewage pumps and discharge piping.

- Plant and Safety Upgrade (2020-2021) – S472

The intent of this program is to address smaller type improvements that are identified to improve the efficient operation of the plant and remote pump station facilities.

Work scheduled for 2020 includes replacing sluice gates in the secondary area by ALCOSAN Maintenance staff. The DCS equipment will also be upgraded. This includes a new server and upgrading the existing workstations.

- Energy Recovery Facility Improvements (2020-2021) – S473

The intent of this program is to address smaller type improvements that are identified to improve the efficient operation of the Energy Recovery Improvements. Potential projects

include installing an isolation device on the afterburner and upgrading or replacing turbine generators.

- New Access Shaft Manholes near A-40 and M-49 River Crossing – S474

This capital project includes construction of two new deep access shafts near A-40 and M-49 river crossing connection to the deep tunnel interceptor. During recent sonar inspection of the deep tunnel interceptor during Contract 1679, these two areas were identified as containing heavy debris. This Capital Project is for the installation of new access shafts to be used for the cleaning of the deep tunnel interceptor in these areas. Also included within this project is the relocation of the overflow structure O-15 and enlarging the stream crossing sewer.

- Tunnel Program Management – S475

This capital project includes overall program management of the upcoming Interim Clean Water Plan tunnel and conveyance system design contracts. This project will provide for management of the design consultants, participating in design workshops, and management of overall project scope, budget and schedule, coordination of modeling activities, coordination of land and easement acquisition, and ongoing review of design activities and coordination with internal and external stakeholders.

- Precipitation Monitoring System Replacement and Upgrade – S476

ALCOSAN has been involved in precipitation monitoring in the region for nearly 30 years. In cooperation with the 3 Rivers Wet Weather (3RWW), ALCOSAN personnel have maintained a network of precipitation monitors (rain gauges). In addition, ALCOSAN provides technical support for the virtual rain gauge network, which most municipal engineering firms utilize.

The current network has been operating since 2003. The program developed a communications network to telemetry the rainfall data to 3RWW headquarters in the Allegheny County Health Department (ACHD) office complex in Lawrenceville. This data is transmitted to a third-party vendor to process the virtual rain data. However, over the past several years, the communications network has not been running efficiently due to age of equipment. Over the past several years, ALCOSAN has assumed the maintenance responsibilities for the program. Planning for the equipment replacement and upgrades to the communications network has been developed for the past two years by ALCOSAN staff.

This capital project provides for the development of a study, purchase of various precipitation monitoring equipment, and an upgrade to the communication network that will transmit data to a central ALCOSAN data server.

- Water Quality Monitoring Program – S477

As detailed in the Clean Water Plan, ALCOSAN proposed two cycles of water quality sampling, focusing on the primary pollutant of concern; bacteria, at selected monitoring locations to document the improvements attributed to the implementation of the Interim Measures Wet Weather Plan (IWWP). ALCOSAN will be coordinating the planned water quality monitoring program with regulatory agencies in 2021. It is proposed for the water quality monitoring will be performed in five phases, each phase following a key milestone in the implementation of the IWWP.

The scheduled first phase of the proposed sampling is anticipated to begin during the 2024 recreational period (May through September) and will take three dry-weather and three wet-weather samples. It is anticipated that ALCOSAN Environmental Monitoring personnel will perform the dry weather sampling and the wet weather sampling will be performed under a service authorization in this capital budget.

This capital budget will cover the first two proposed phases of the water quality monitoring program with phase two expected to be completed in 2029.

- Flow Targets – S478

Development of this capital project will be in accordance to the upcoming municipal regulatory requirements and modified Consent Decree. ALCOSAN has engaged with 3RWW and municipal engineers since 2015 in the development of flow targets. These meetings culminated in the development of the Municipal Source Reduction Studies submitted by the municipalities in December 2017. This capital program will build upon the work done in other capital programs to engage Customer Municipalities and develop the methodology for the flow targets.

- Clay Street Sewer Separation – S479

This Capital Project was originally part of S437, Ravine Street stream inflow. Funding allocated from the State necessitated ALCOSAN to bid a specific portion of the original Ravine Street project. This project converts a 36-inch combined sewer into a storm sewer and new sanitary sewers to collect the sanitary sewage. Construction is expected to be complete in Spring 2021.

- Spring Garden Direct Stream Inflow Removal – S480

In 2020, the Pittsburgh Water and Sewer Authority (PWSA) in collaboration with Reserve Township, completed a preliminary design to evaluate and select the most feasible and cost-effective method for removal of the Direct Steam Inflow (DSI). After the preliminary design, PWSA elected to not move independently forward with the project and provided their findings to ALCOSAN. At the Spring Garden stream inflow site, managing the stream in the upper watershed areas will reduce the frequency and volume of combined sewer overflows (CSO) that contribute to regional water quality issues. ALCOSAN will

accomplish this through three primary components or some combination of detention, conveyance, and grit and sediment management.

The project will consist of construction of a new detention basin to retain the stream flow during wet weather events to reduce the volume of combined sewer overflow to the Allegheny River, conveyance to slowly release flow back into the combined system and/or a complete separation of the Spring Garden inflow, and management of grit and sediment material carried in the stream flow to prevent the material from eroding existing infrastructure and entering the ALCOSAN deep tunnel conveyance system.

- Aeration Tank Diffuser Replacement – S481

This capital project includes the replacement of the fine bubble diffuser systems in each of the eight aeration tanks beginning where the process air drop legs transition from stainless steel to PVC approximately 10 feet below the water surface. Each aeration tank has four passes, and each pass has three zones. Each zone is served by a drop leg. The existing ceramic fine bubble diffuser system will be demolished and replaced with a more robust membrane fine bubble diffuser system. The diffuser layout and density will be similar to the previous installation to maintain oxygen transfer capacity for existing flows and loads, and will also have “blanks” installed that will provide additional oxygen transfer capacity for future flows and loads. Construction will begin in early 2021.

- Mobile Equipment (2021) – S482

This capital program provides for purchase of various utility vehicles and equipment that can be used in the operation and maintenance of the ALCOSAN facilities by ALCOSAN personnel. They include a dump truck, combo truck, pick-up trucks, vans, passenger vehicles and a towable water buffalo.

- Conveyance, Rehabilitation, and Enhancements (2021-2022) – S483

This capital project is to conduct small capital improvements and repairs in the ALCOSAN Regional Conveyance System. Rehabilitation and enhancement work will continue based upon recommendations from the Interceptor Systems Department. Projects identified for 2021 include upgrades to the HVAC and electrical systems as well as concrete repairs at the O-07 access shaft. A permanent repair design is planned to be completed and constructed at the O-32 drop shaft to address defects found under Contract 1679. Other projects identified by the Interceptor Systems Department will also be addressed under this project.

- Delafield Direct Stream Inflow Removal Project – S484

Removal of the Delafield stream inflow has long been a priority of ALCOSAN and other local stakeholders. The combined collection system in Aspinwall receives streamflow and roadway runoff from two upstream municipalities (Fox Chapel and O’Hara Twp.). The project, in coordination with the US Army Corps of Engineers and municipal partners, will construct a new storm sewer to redirect stormwater runoff away from the Aspinwall

combined sewer system and into the Allegheny River, which will help reduce the risk and frequency of combined sewer overflows and severe flooding during major wet weather events.

- Ohio River Tunnel (ORT) Final Design Consultant – S485

This capital project will advance the 30% basis of design from Preliminary Planning to final bid documents for the various construction contracts that will be required for the ORT segment as well as near surface facilities. Design will begin in 2021

For 2021, it has been estimated that low-cost capital improvements will total \$2,024,200 as shown in Item S000 on Table 3-1.

## 4. REVENUES

Table 4-1 lists the actual cash revenues of the Authority for the years 2017, 2018, and 2019 together with the 2020 budget and the actual cash revenues for the eight months ending August 31, 2020. Table 4-1 also shows projected 2020 revenues for the entire twelve months period and the year 2021 budget. As shown on Table 4-1, it is projected that Total Revenues for 2020 will amount to \$184,015,900, which is under budget by approximately \$9,141,600.

Total Revenues consist of four primary sources: commodity charges, service charges, industrial charges, and non-operating income. The commodity charge is based on the amount of billed thousand-gallon water usage by each residence, business, or public building. The service charge is a fixed rate assessed quarterly on every user account, and industrial charges consist of high strength sewage charges and garbage grinder fees.

Basic and Special Charges, which include the commodity, special, and industrial charges, comprise over 99 percent of annual operating income. It is anticipated that these charges will amount to \$184,015,900 in 2020, approximately \$9,141,600 or 4.7 percent less than the 2020 budget. The 2020 projected results are about 2.7 percent less than the year 2019 actual results, likely due to adverse economic impacts of COVID-19 on reduced commercial consumption and recreational venues. However, the 2020 projected results are about 6.1 percent greater than the 2018 results, and 12.1 percent above 2017 actuals. The increase in Basic and Special Charges reflects the results of the four-year rate increase program. However, as the cost per customer increases, consumers tend to use less water. Billed water consumption and the number of retail customers have been trending downward over the past ten years. ALCOSAN anticipates that this downward trend in water usage may be slowing or reversing.

In 2017, the ALCOSAN Board of Directors voted to adopt a new rate study proposal, which became effective in 2018 and will remain in effect through the year 2021. This study recommended a 7.5 percent increase in rates for 2018 and a rate increase of 7 percent for each of the following three years.

**Table 4-1  
 Summary of Revenues**

Revenue Category	2017 Actual	2018 Actual	2019 Actual	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
Basic and Special Charges	\$162,719,670	\$169,978,913	\$179,765,640	\$189,661,500	\$134,340,422	\$182,975,900	\$192,487,300
Grants	0	0	0	0	0	0	0
Interest Income	1,094,977	3,127,445	8,966,272	3,210,000	846,596	855,000	145,000
Other	380,273	314,177	472,648	286,000	178,497	185,000	246,000
<b>Total Revenues</b>	<b>\$164,194,920</b>	<b>\$173,420,535</b>	<b>\$189,204,560</b>	<b>\$193,157,500</b>	<b>\$135,365,515</b>	<b>\$184,015,900</b>	<b>\$192,878,300</b>

ALCOSAN has two methods of billing its customers—direct bill or lump sum. Currently the majority, 80 communities, is billed lump sum, while the customers in three communities are still billed directly.

Non-operating income consists of three main categories: interest income, grants, and other miscellaneous income. In recent years, no grant monies have been received, and funds generated from interest income have been a very nominal part of the Revenue Budget. Interest income in 2020 is expected to be approximately \$855,000, \$2,355,000 less than 2020 budget projections and \$8.11 million less than 2019 actual interest income. Other Revenues are expected to be about 35 percent below budget. In 2020, Other Revenues consisted of septic tank disposal fees, pretreatment fees, closing letter fees, and miscellaneous income.

The year 2021 budget is based on:

- A full year's revenue generated by the 7 percent rate increase that became effective on January 1, 2020 and another 7 percent increase in rates for 2021, effective January 1, 2021. This coming year's 7 percent increase is the fourth in the latest four-year rate increase program. It is anticipated that this 7 percent increase will generate approximately \$9.50 million dollars a year more than the 2020 projected total. However, due to billing cycles, 2021 Basic and Special Charge revenues reflect only six months impact from the January 1, 2021 rate increase. The current user rate of \$8.50 per 1,000 gallons of water used will increase to \$9.10 per 1,000 gallons. The quarterly customer service charge will increase from \$17.86 per quarter to \$19.11. Based on a quarterly usage of 12,000 gallons of water, the average cost per household will be \$513.24 per year, which is a \$2.82 per month increase over 2020 rates.
- No grant funds are anticipated during 2021.
- Interest earnings in 2021 are anticipated to be approximately \$710,000 less than 2020 projected results.
- Other revenues are expected to be slightly higher in 2021.

The total 2021 revenue budget of \$192,878,300 is approximately \$8.86 million more than 2020 projected results and about \$279,000 less than the 2020 budget.

## 5. OPERATING EXPENSES

Table 5-1 is a summary listing of the actual operating expenses for the years 2017, 2018, and 2019, the 2020 budget, and the actual expenses for the eight months ended August 31, 2020, together with the projected full year 2020 operating expenses and the year 2021 budget. A detailed summary of operating expenses is shown on Table 5-2, and the detailed lists of operating expenses by line item are provided in Schedules I through IX.

**Table 5-1  
 Summary of Operating Expenses**

No.	Expense Category	2017 Actual	2018 Actual	2019 Actual	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
I	Administration & Engineering	\$9,739,753	\$10,625,520	\$11,843,560	\$14,710,800	\$7,075,880	\$11,982,200	\$15,009,600
II	Management Info. Systems	2,657,598	2,579,345	2,665,310	3,024,000	2,079,288	2,935,400	3,378,700
III	Customer Service and Billing	3,466,796	2,586,870	2,695,729	3,502,600	2,063,669	3,479,800	3,861,700
IV	Environmental Compliance	3,585,800	3,710,757	4,337,168	5,163,000	2,726,412	4,137,000	5,117,900
V	Interceptor System	5,167,159	6,607,286	6,607,621	13,976,900	3,550,347	7,091,500	12,818,000
VI	Plant Operations	20,858,835	22,470,837	24,125,184	25,302,800	14,897,918	23,889,600	25,320,000
VII	Professional Services	749,441	637,822	720,622	880,000	474,011	847,000	930,000
VIII	Plant Maintenance	8,661,679	9,435,359	9,486,630	10,344,300	6,402,041	9,596,400	10,064,600
IX	Employee Benefits	19,852,288	21,606,713	21,179,273	24,708,700	15,455,104	25,109,600	26,883,200
	Total Expenses	\$74,739,329	\$80,260,509	\$83,681,117	\$101,613,100	\$54,724,670	\$89,068,500	\$103,183,700
	Debt Service				59,699,350		59,699,350	59,895,606
	Total Requirements				\$161,312,450		\$148,767,850	\$163,079,306

As shown on Table 5-1, it is anticipated that projected expenses will come in under budget by approximately \$12,544,000. All departments except Employee Benefits are expected to come in under budget this year with departmental savings ranging from 0.7 percent to over 49 percent. Employee Benefits was slightly over budget by 1.62 percent.

The year 2021 budget has been prepared in conjunction with the ALCOSAN staff and reflects expected activity for the coming year. The 2021 budget anticipates operating expenses of \$103,183,700, an approximate \$1.57 million increase over the 2020 budget. The 2021 budget shows an increase of approximately 15.8 percent over 2020 projected results.

The 2021 budget projections are based on the following assumptions:

- An increase in authorized staff of 8 persons. At this time, there are 101 vacancies. Many of the staffing vacancies are associated with anticipated needs for fulfilling the Consent Decree compliance and regionalization requirements. Provisions have been made in the budget for a 3 percent increase in salaries and wages.
- Due to the continual increases in rates necessary to comply with the Consent Decree Implementation and Compliance, \$850,000 in funding for the Customer Assistance Program has been included this year.
- An increase of \$1.58 million in the cost of employee benefits, nearly 6.3 percent greater than 2020 projections, is due primarily to the increased number of employees. Increased pension plan costs are actual costs provided by the actuary. Allowances in all premiums and costs have been included for the filling of 101 vacancies.
- The 2021 budget provides increased costs for the Federal Consent Decree implementation requirements. It is anticipated that \$5 million will be expended on cleaning and inspection and another \$934,300 for regional conveyance. Utility costs are again varied for the coming year. Electricity is expected to increase by 4.4 percent over 2020 budget while natural gas costs are projected to decrease by almost 10 percent. Water cost is anticipated to increase by 26 percent as compared to the 2020 budget amount.
- Chemical costs are projected to be 11 percent lower in 2021 than the budgeted amount for 2020.
- Land application disposal costs are expected to increase by \$100,000 in 2021 relative to the 2020 budget figure. Costs for disposing of grit and trash have been projected at \$22,500 in 2021. Tipping fees for sludge disposal are expected to increase by 22 percent in the coming year.
- The 2021 budget provides an additional \$6.0 million in funding for municipal green infrastructure and source reduction "GROW" program financing.

**Table 5-2: Detailed Summary of Operating Expenses**

Expense Category	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>Adminstration and Engineering</b>			
Executive Adminstration	\$1,685,902	\$2,915,100	\$3,251,600
Public Relations	1,261,061	2,637,400	2,805,000
Municipal Outreach	446,237	717,400	958,100
Scholastic Outreach	874,437	1,368,300	2,399,400
Human Resources	312,456	480,000	669,900
Training Administration	125,287	188,500	300,800
Accounting/Finance	516,204	807,700	1,090,100
Purchasing	336,736	526,800	576,100
Engineering Adminstration	320,373	486,000	465,300
OR/CD Administration	33,287	51,400	72,000
Capital Projects	311,133	485,300	755,800
Contract Administraion	187,284	287,400	456,500
CSO Program Management	578,783	894,200	972,300
ECM/Environmental Reporting	86,700	136,700	236,700
Total Adminstration and Engineering	<u>7,075,880</u>	<u>11,982,200</u>	<u>15,009,600</u>
<b>Management Information Systems</b>	<u>2,079,288</u>	<u>2,935,400</u>	<u>3,378,700</u>
<b>Customer Service and Billing</b>	<u>2,063,669</u>	<u>3,479,800</u>	<u>3,861,700</u>
<b>Environmental Compliance</b>			
Environmental Compliance	214,940	280,300	517,400
Laboratory	1,324,909	2,025,200	2,231,700
Industrial Waste	1,024,458	1,572,600	2,032,200
Diverse Residuals Management	162,105	258,900	336,600
Total Environmental Compliance	<u>2,726,412</u>	<u>4,137,000</u>	<u>5,117,900</u>
<b>Interceptor System</b>			
Regional Conveyance Administration	374,010	570,500	934,300
General-Upper Allegheny System	45,111	70,200	94,400
Verona Pump Station	27,704	47,000	61,800
Squaw Run Pump Station	35,497	60,700	69,900
Montrose Ejector Station	24,107	39,500	55,700
Saw Mill Run	27,868	43,500	58,200
Regionalized Facilities	0	0	1,546,800
General-Except Upper Allegheny	2,816,980	5,922,800	9,602,800
Corliss Pump Station	41,957	80,400	96,000
Malancthon Ejector Station	20,467	32,500	39,400
Ella Street Pump Station	49,049	83,000	100,900
Sandy Creek Pump Station	87,597	141,400	157,800
U5 Ejector Station	0	0	0
Total Interceptor System	<u>3,550,347</u>	<u>7,091,500</u>	<u>12,818,000</u>

**Table 5-2: Detailed Summary of Operating Expenses (Continued)**

Expense Category	2019 Actual to 8/31	2019 Projected	2020 Budget
<b>Plant Operations</b>			
Safety	\$904,140	\$1,421,400	\$1,781,800
Operations and Maintenance Administration	247,215	381,400	388,700
Main Pump Station	1,026,040	1,654,000	1,655,000
Rack and Grit	461,241	722,000	794,500
Mobile Equipment for Treatment	512,215	769,200	1,033,200
Primary Sedimentation	1,819,050	2,805,300	2,897,800
Disposal of Sludge, Ash, and Grit	1,160,650	1,990,000	2,162,500
Boilers	113,369	203,000	258,000
Energy Recovery	2,160,579	3,553,100	3,760,300
Sludge Dewatering	2,533,331	3,907,900	3,924,900
Lime Stabilization	548,474	863,400	899,800
Secondary Treatment and Post Chlorination	1,251,604	2,075,000	2,116,300
General Plant Treatment	2,160,010	3,543,900	3,647,200
Total Plant Operations	14,897,918	23,889,600	25,320,000
<b>Professional Services</b>	474,011	847,000	930,000
<b>Plant Maintenance</b>			
Executive Administration	29,775	45,500	50,600
Safety	21,020	28,400	23,600
Accounting/Finance	20	100	0
Purchasing	604	900	1,000
Management Information Systems	13,243	17,300	22,500
Customer Service and Billing	17,714	30,700	46,500
Engineering Administration	0	0	0
Laboratory	28,212	48,600	65,600
Industrial Waste	1,957	3,800	8,500
Operations & Maintenance Administration	761	1,000	0
Main Pump Station	201,608	260,400	339,800
Rack and Grit	221,046	310,100	312,500
Mobile Equipment for Treatment	45,252	65,600	66,100
Primary Sedimentation	184,532	296,000	352,800
Boilers	3,763	5,900	10,300
Energy Recovery	688,105	991,300	953,400
Sludge Dewatering	722,945	995,800	836,600
Lime Stabilization Dewatering	83,837	139,500	171,000
Secondary Treatment and Post Chlorination	335,236	534,800	611,900
General Plant Treatment	3,802,411	5,820,700	6,191,900
Total Plant Maintenance	6,402,041	9,596,400	10,064,600
<b>Employee Benefits</b>	15,455,104	25,109,600	26,683,200
<b>TOTAL OPERATING EXPENSES</b>	<b>\$54,724,670</b>	<b>\$89,068,500</b>	<b>\$103,183,700</b>

A summary of authorized positions as proposed in the year 2021 budget is presented in Table 5-3. The table includes both management and union employees by department. Appendix B provides a listing of Authorized Positions (Proposed) by office, department, management staff, and union positions.

**Table 5-3: Summary of Authorized Positions (as proposed in 2021 Budget)**

	Management Employees		Union Employees	
	Budgeted	Actual	Budgeted	Actual
Executive Director's Office	5	1	--	--
Contract Administration	7	4	--	--
Public Relations	9	8	2	2
Scholastic Programs	13	6	21	14
Municipal Outreach	7	5	--	--
<b>Finance &amp; Administration</b>				
Director's Office	2	2	--	--
Accounting	3	2	5	4
Customer Service & Billing	4	4	21	20
Human Resources	6	6	--	--
Training and Development	2	2	--	--
Loss Control	7	6	15	13
MIS	3	2	18	17
Purchasing	3	3	8	7
<b>Operations &amp; Maintenance</b>				
Director's Office	3	3	--	--
Operations	12	12	65	62
Mechanical Maintenance	10	8	70	61
Electrical Maintenance	5	5	22	19
<b>Environmental Affairs</b>				
Director's Office	3	3	--	--
Residuals	4	3	1	1
Industrial Waste	3	2	18	16
Laboratory	3	3	15	14
ECM Systems	4	1	--	--
<b>Engineering &amp; Construction</b>				
Director's Office	4	4	3	3
Capital Projects	11	9	4	3
OR/CD Administration	1	0	--	--
<b>Regional Conveyance</b>				
Director's Office	15	10	--	--
Wet Weather Programs	8	6	9	7
Interceptor Systems	10	7	55	35
Regionalization Facilities	2	0	5	0
<b>TOTAL</b>	<b>169</b>	<b>127</b>	<b>357</b>	<b>298</b>

**6. DEBT SERVICE COVERAGE CALCULATION**

The year 2021 budget revenue expectation less the 2021 budget of operating expenses produces a net income available for debt service as shown by the following calculation.

2021 Projected Revenues	\$192,878,300
2021 Budgeted Operating Expenses	103,183,700
Transfer to Capital Facilities	<u>6,000,000</u>
Net Operating Income	\$ 83,694,600
2021 Debt Service	\$ 59,895,606
Less Capitalized Interest	<u>0</u>
Net 2021 Debt Service	\$ 59,895,606

In accordance with the 1997 Trust, there are two tests that must be met to satisfy the debt service coverage requirements. The first test requires that Net Operating Income, which is current Revenues minus current Operating Expenses, cover Debt Service by 100 percent. This requirement will be met in 2021. In addition, \$6,000,000 has been allocated for potential cash funding of municipal green infrastructure and source reduction GROW program projects during 2021.

The second test requires minimum debt service coverage of 1.10. This requirement will also be met in 2021 as the Net Operating Income plus the January 1, 2020 Revenue Fund balance after deduction of the required fund balance (25 percent of the Operating Expense budget for 2020) provides Debt Service coverage of 3.90. The January 1, 2020 Revenue Fund balance was \$175,476,686, and the minimum balance, which must be maintained in the Revenue Fund is \$25,795,925. This leaves a beginning Revenue Fund balance of \$149,680,761 in excess of the 25 percent required minimum.

The ALCOSAN system continues to reflect improving coverage levels and strong financial management practices and policies. In August 2020, Moody's Investors Service upgraded the ratings for ALCOSAN's \$678 million of parity Sewer Revenue Bonds from A1 to Aa3 and also assigned an Aa3 rating to the Authority's \$149 million Sewer Revenue Bonds, Series A of 2020 and Series B of 2020. The outlook on all debt is stable. At the same time, the S&P assigned a rating of A+ stable to the Authority with a stable outlook

**7. INSURANCE**

The schedule of insurance policies presently in effect is shown on Table 7-1. These policies and coverages are in conformance with general practice of other authorities and meet the requirements of Section 6.12 of the Trust Indenture.

**Table 7-1: Schedule of Insurance Policies**

Type	Amount	Estimated Premium
<b>PROPERTY (Deductible \$100,000)</b> Building & Personal Property – Limit of Insurance Equipment Breakdown – Per Limit of Insurance Business Income and Extra Expense Owned Equipment (Deductible \$1,000) Contractors' Equipment (Deductible \$1,000) Contractors Equipment Leased or Rented (Deductible \$1,000) Earthquake Blanket Limit (Deductible \$100,000) Flood Blanket Limit (Deductible \$100,000) McGowan Governmental Underwriters American Zurich Insurance Company Policy No. CPO-0632982-00 May 16, 2020 to May 16, 2021	\$742,629,723  742,629,723  10,000,000 215,612 261,996 400,000  5,000,000  5,000,000	\$487,861
<b>GENERAL LIABILITY</b> Each Occurrence General Aggregate Employee Benefits Liability (Deductible \$1,000) Abusive Act Liability McGowan Governmental Underwriters American Zurich Insurance Company Policy No. CPO-0632982-00 May 16, 2020 to May 16, 2021	\$1,000,000 3,000,000 1,000,000 1,000,000	Included Above in the Property Coverage
<b>AUTOMOBILE (Deductible \$1,000)</b> Combined Single Limit of Liability Uninsured/Underinsured Motorist Medical Expenses Comprehensive Deductible Collusion Deductible McGowan Governmental Underwriters American Zurich Insurance Company Policy No. CPO-0632982-00 May 16, 2020 to May 16, 2021	\$1,000,000 1,000,000 5,000 1,000 1,000	Included Above in Property Coverage
<b>EXCESS LIABILITY</b> Each Occurrence Aggregate Limit McGowan Governmental Underwriters Munich Re Insurance Company Policy No. 69A2FF0000047-00 May 16, 2020 to May 16, 2021	\$5,000,000 5,000,000	\$35,000



**Table 7-1: Schedule of Insurance Policies (continued)**

Type	Amount	Estimated Premium
<p>POLLUTION (Deductible \$50,000 Each Event) ENVIRONMENTAL SITE LIABILITY (3 Year Term*) Liability Limit Each Incident Aggregate Limit Rogers Insurance Group Zurich – Steadfast Insurance Company Policy No. EPC 9485417 02 May 16, 2020 to May 16, 2023</p>	<p>\$5,000,000 5,000,000</p>	<p>\$54,100*</p>
<p>HULL and PROTECTION &amp; INDEMNITY (Deductible \$5,000/ \$10,000) Total Insured Value Combined Single Limit Hull - Barge-ACSA (\$5,000 Deductible) Hull - Deck Barge with Crane (\$20,000 Deductible) Hull - Aluminum Jon Boat &amp; Trailer (\$5,000 Deductible) Hull - Tug/Pushboat (\$20,000 Deductible) P&amp;I on each vessel above Joyce Insurance Group Atlantic Specialty Insurance Company Policy No. B5JH04276 May 16, 2020 to May 16, 2021</p>	<p>\$4,140,779 1,000,000 105,000 1,999,697 18,667 2,017,415 1,000,000</p>	<p>\$67,781</p>
<p>GROUP TRAVEL (3-Year Term)* Hartford Life Insurance Company Policy No. 40-ETB-200335 November 9, 2019 to November 9, 2022</p>	<p>\$2,500,000</p>	<p>\$2,700*</p>
<p>WORKERS' COMPENSATION Bodily Injury Each Accident Bodily Injury by Disease Policy Limit Bodily Injury by Disease per Employee Seubert &amp; Associates HARIE (Housing and Redevelopment Insurance Exchange) Policy No. HWC 40756161220 May 16, 2020 to May 16, 2021</p>	<p>\$1,000,000 1,000,000 1,000,000</p>	<p>\$631,079</p>
<p>ARCHITECTS AND ENGINEERS PROFESSIONAL LIABILITY \$15,000 Each Claim Deductible \$45,000 Aggregate Deductible Each Wrongful Act Aggregate Rogers Insurance Group Lloyds of London Policy No.10143L180372 May 16, 2020 to May 16, 2021</p>	<p>\$1,000,000 \$1,000,000</p>	<p>\$11,970</p>

**Table 7-1: Schedule of Insurance Policies (continued)**

Type	Amount	Estimated Premium
<b>EXCESS EARTHQUAKE &amp; FLOOD</b> Limit of Insurance McGowan Governmental Underwriters Kinsale Insurance Company Policy No. 010015287-0 May 16, 2020 to May 16, 2021	\$5,000,000	\$125,000
<b>ACTIVE ASSAILANT</b> Each Occurrence Aggregate Limits Legal Liability Physical Damage Business Interruption Loss of Attraction Extra Expense Bodily Injury Response Company Fees Seubert & Associates, Inc. Aspen Insurance Policy No. B0572YR200225 May 16, 2020 to May 16, 2021	\$3,000,000 3,000,000 3,000,000 3,000,000 3,000,000 3,000,000 3,000,000 1,000,000 300,000	\$14,296

# **Schedule I**

## **Administration and Engineering**

**Schedule I.1  
Administration and Engineering**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>110</b>	<b>EXECUTIVE ADMINISTRATION</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$402,400	\$149,944	\$229,300	\$452,200
6300	Vehicle Maintenance Labor	0	0	0	0
	Total Salaries and Wages	<u>402,400</u>	<u>149,944</u>	<u>229,300</u>	<u>452,200</u>
	<b>Other Expenditures</b>				
1560	Prepaid Insurance	1,100,000	1,000,735	1,050,000	1,150,000
6425	Training and Seminars	10,900	0	5,000	15,000
6716	Telephone	41,900	27,440	41,200	42,400
6725	Other Communication	2,500	926	1,400	1,400
6811	Travel & Expense	800	190	300	300
7307	Copier Paper	200	0	0	0
7310	Advertising	500	603	900	900
7313	Publications	0	90	100	100
7316	Board of Directors Expenses	3,000	254	400	2,000
7391	Miscellaneous Office Supplies and Materials	7,400	2,655	4,000	4,100
7420	Equipment Repairs and Maintenance	21,400	13,152	19,700	20,300
7429	Registration Fees/Conferences	600	0	0	0
7438	Printing Charges (Forms, Copies)	0	0	0	0
7441	Professional Association Fees	60,000	4,525	60,000	60,000
7457	Special Projects	1,500,000	483,545	1,500,000	1,500,000
7511	Gas and Oil-Vehicles and Equipment	1,100	383	600	600
7531	Maintenance/Repair-Vehicle and Equipment	1,800	1,460	2,200	2,300
7711	EDP Hardware	0	0	0	0
7721	EDP Software	0	0	0	0
	Total Other Expenditures	<u>2,752,100</u>	<u>1,535,958</u>	<u>2,685,800</u>	<u>2,799,400</u>
	<b>Total Executive Administration</b>	<u><u>\$3,154,500</u></u>	<u><u>\$1,685,902</u></u>	<u><u>\$2,915,100</u></u>	<u><u>\$3,251,600</u></u>

**Schedule I.2  
Administration and Engineering**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>115</b>	<b>PUBLIC RELATIONS</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$658,200	\$370,236	\$566,200	\$670,700
6100	Union Wages-Except Plant Maintenance	169,500	99,800	153,600	160,400
	Total Salaries and Wages	<u>827,700</u>	<u>470,036</u>	<u>719,800</u>	<u>831,100</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	2,500	0	0	5,000
6725	Other Communication	40,000	13,397	25,000	35,000
6811	Travel and Expense	10,000	47	100	10,000
7307	Copier Paper	300	0	0	300
7310	Advertising	25,000	6,450	11,000	25,000
7313	Publications	1,500	130	500	1,500
7319	Promotional Materials	200,000	21,249	40,000	100,000
7323	Open House Expenses	200,000	5,398	60,000	200,000
7391	Miscellaneous Office Supplies and Materials	25,000	25,252	40,000	30,000
7423	Equipment Rental	600	0	0	600
7429	Registration Fees/Conferences	10,000	0	0	10,000
7438	Printing Charges (Forms, Copies)	75,000	1,964	5,000	40,000
7441	Professional Association Fees	1,500	10,195	18,000	1,500
7457	Special Projects	1,500,000	695,990	1,700,000	1,500,000
7511	Gas and Oil-Vehicles and Equipment	1,000	23	100	1,000
7531	Maintenance/Repair-Vehicle and Equipment	1,000	622	1,000	1,000
7711	EDP Hardware	3,000	4,477	8,000	10,000
7721	EDP Software	3,000	243	500	3,000
7751	Software Supportive Services	0	5,588	8,400	0
	Total Other Expenditures	<u>2,099,400</u>	<u>791,025</u>	<u>1,917,600</u>	<u>1,973,900</u>
	<b>Total Public Relations</b>	<u><u>\$2,927,100</u></u>	<u><u>\$1,261,061</u></u>	<u><u>\$2,637,400</u></u>	<u><u>\$2,805,000</u></u>

### Schedule I.3 Administration and Engineering

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>116</b>	<b>MUNICIPAL OUTREACH</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$516,600	\$265,900	\$406,700	\$519,500
	Total Salaries and Wages	<u>516,600</u>	<u>265,900</u>	<u>406,700</u>	<u>519,500</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	500	0	0	500
6725	Other Communication	6,000	3,664	6,000	6,000
6811	Travel and Expense	12,000	6,074	8,000	12,000
7307	Copier Paper	1,000	0	1,000	1,000
7313	Publications	500	0	500	500
7319	Promotional Mtaerials	5,000	498	4,000	30,000
7391	Miscellaneous Office Supplies and Materials	5,000	2,509	4,500	5,000
7423	Equipment Rental	200	0	0	200
7429	Registration Fees/Conferences	42,500	744	1,500	42,500
7438	Printing Charges (Forms, Copies)	5,000	90	200	5,000
7441	Professional Association Fees	2,000	745	2,000	2,000
7457	Special Projects	130,000	165,445	280,000	327,500
7511	Gas and Oil-Vehicles and Equipment	1,000	211	500	1,000
7531	Maintenance/Repair-Vehicle and Equipment	800	357	500	2,000
7711	EDP Hardware	6,000	0	2,000	3,000
7721	EDP Software	400	0	0	400
	Total Other Expenditures	<u>217,900</u>	<u>180,337</u>	<u>310,700</u>	<u>438,600</u>
	<b>Total Municipal Outreach</b>	<u><u>\$734,500</u></u>	<u><u>\$446,237</u></u>	<u><u>\$717,400</u></u>	<u><u>\$958,100</u></u>

## Schedule I.4 Administration and Engineering

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>117</b>	<b>SCHOLASTIC OUTREACH</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$744,900	\$255,290	\$390,400	\$809,500
6100	Union Wages-Except Plant Maintenance	1,225,400	569,956	877,200	1,380,300
	Total Salaries and Wages	<u>1,970,300</u>	<u>825,246</u>	<u>1,267,600</u>	<u>2,189,800</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	17,000	764	1,000	17,000
6711	Postage	100	0	0	100
6725	Other Communication	12,500	6,536	10,800	12,500
6811	Travel and Expense	10,000	52	100	8,000
7307	Copier Paper	1,000	0	200	500
7310	Advertising	5,000	0	0	1,500
7313	Publications	500	0	300	500
7319	Promotional Materials	15,000	0	0	10,000
7323	Open House Expenses	2,500	856	900	2,500
7391	Miscellaneous Office Supplies and Materials	4,000	7,808	15,000	10,000
7423	Equipment Rental	5,000	0	0	5,000
7429	Registration Fees/Conferences	4,000	2,190	2,200	2,000
7438	Printing Charges (Forms, Copies)	5,000	1,091	1,500	3,000
7441	Professional Association Fees	1,500	563	1,000	1,500
7457	Special Projects	120,000	26,424	50,000	106,500
7511	Gas and Oil-Vehicles and Equipment	2,000	867	2,000	2,000
7531	Maintenance/Repair-Vehicle and Equipment	2,000	1,880	2,000	5,000
7711	EDP Hardware	10,000	0	8,500	15,000
7721	EDP Software	6,000	160	5,200	7,000
	Total Other Expenditures	<u>223,100</u>	<u>49,191</u>	<u>100,700</u>	<u>209,600</u>
	<b>Total Scholastic Outreach</b>	<u>\$2,193,400</u>	<u>\$874,437</u>	<u>\$1,368,300</u>	<u>\$2,399,400</u>

**Schedule I.5  
Administration and Engineering**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>120</b>	<b>HUMAN RESOURCES</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$425,200	\$289,289	\$442,400	\$493,500
	Total Salaries and Wages	<u>425,200</u>	<u>289,289</u>	<u>442,400</u>	<u>493,500</u>
	<b>Other Expenditures</b>				
6811	Travel and Expense	1,000	72	100	200
7307	Copier Paper	600	185	300	400
7310	Advertising	15,000	2,228	3,400	5,000
7313	Publications	10,000	0	0	12,100
7391	Miscellaneous Office Supplies and Materials	15,000	5,039	7,600	7,000
7420	Equipment Repairs and Maintenance	1,000	171	300	400
7429	Registration Fees/Conferences	5,500	0	0	5,500
7438	Printing Charges (Forms, Copies)	8,500	0	2,500	8,500
7441	Professional Association Fees	800	219	400	900
7457	Special Projects	75,000	11,444	17,200	75,000
7711	EDP Hardware	5,000	3,648	5,500	4,600
7721	EDP Software	0	161	300	0
7751	Software Support Services	181,800	0	0	56,800
	Total Other Expenditures	<u>319,200</u>	<u>23,167</u>	<u>37,600</u>	<u>176,400</u>
	<b>Total Human Resources</b>	<u>\$744,400</u>	<u>\$312,456</u>	<u>\$480,000</u>	<u>\$669,900</u>

**Schedule I.6  
Administration and Engineering**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>122</b>	<b>TRAINING ADMINISTRATION</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$173,300	\$112,365	\$171,900	\$176,700
	Total Salaries and Wages	<u>173,300</u>	<u>112,365</u>	<u>171,900</u>	<u>176,700</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	50,000	3,903	6,000	44,000
6711	Postage	100	0	0	100
6725	Other Communication	200	0	0	0
6811	Travel and Expense	500	0	0	0
7391	Miscellaneous Office Supplies and Materials	500	1,529	2,000	500
7429	Registration Fees/Conferences	1,000	0	0	0
7438	Printing Charges (Forms, Copies)	1,500	2,430	3,500	3,500
7441	Professional Association Fees	400	0	0	0
7457	Special Projects	0	0	0	0
7711	EDP Hardware	0	0	0	0
7721	EDP Software	1,000	5,060	5,100	6,000
7751	Software Support Services	120,000	0	0	70,000
	Total Other Expenditures	<u>175,200</u>	<u>12,922</u>	<u>16,600</u>	<u>124,100</u>
	<b>Total Training Administration</b>	<u><u>\$348,500</u></u>	<u><u>\$125,287</u></u>	<u><u>\$188,500</u></u>	<u><u>\$300,800</u></u>

**Schedule I.7**  
**Administration and Engineering**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>130</b>	<b>ACCOUNTING/FINANCE</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$488,900	\$279,992	\$428,200	\$576,900
6100	Union Wages-Except Plant Maintenance	300,300	189,182	291,200	369,000
	Total Salaries and Wages	<u>789,200</u>	<u>469,174</u>	<u>719,400</u>	<u>945,900</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	0	0	0	0
6811	Travel and Expense	8,100	0	0	8,100
7304	Computer Paper	0	0	0	0
7304	Copier Paper	200	314	600	600
7310	Advertising	500	815	900	1,000
7313	Publications	6,100	0	5,500	6,100
7391	Miscellaneous Office Supplies and Materials	45,500	25,339	50,000	66,500
7420	Equipment Repairs and Maintenance	5,000	16	100	5,000
7429	Registration Fes/Conferences	4,000	1,544	2,000	4,200
7438	Printing Charges (Forms, Copies)	6,700	0	5,500	8,200
7441	Professional Association Fees	3,000	1,735	2,500	3,000
7511	Gas and Oil-Vehicle and Equipment	900	320	800	1,800
7531	Maintenance/Repair-Vehicle and Equipment	1,100	307	400	1,400
7711	EDP Hardware	8,000	0	0	11,000
7721	EDP Software	800	0	0	800
7751	Software Support Services	26,200	16,640	20,000	26,500
	Total Other Expenditures	<u>116,100</u>	<u>47,030</u>	<u>88,300</u>	<u>144,200</u>
	<b>Total Accounting/Finance</b>	<u><u>\$905,300</u></u>	<u><u>\$516,204</u></u>	<u><u>\$807,700</u></u>	<u><u>\$1,090,100</u></u>

**Schedule I.8  
Administration and Engineering**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>140</b>	<b>PURCHASING</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$247,700	\$163,470	\$250,000	\$258,700
6100	Union Wages-Except Plant Maintenance	226,200	143,974	221,600	230,900
	Total Salaries and Wages	<u>473,900</u>	<u>307,444</u>	<u>471,600</u>	<u>489,600</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	2,000	21	1,000	1,000
6711	Postage	50,000	14,939	30,000	50,000
6725	Other Communication	200	143	200	200
6811	Travel and Expense	1,000	7	100	1,000
7307	Copier Paper	500	156	300	500
7310	Advertising	200	0	100	200
7321	MBE/WBE Administration Expense	8,000	1,332	4,000	8,000
7391	Miscellaneous Office Supplies and Materials	12,000	9,999	12,000	12,000
7420	Equipment Repairs and Maintenance	6,500	1,277	2,000	2,000
7423	Equipment Rental	500	0	0	500
7432	Freight Charges	1,000	0	500	1,000
7441	Professional Association Fees	600	160	500	500
7511	Gas and Oil-Vehicles and Equipment	1,000	260	500	600
7531	Maintenance/Repair-Vehicles and Equipment	5,000	998	2,000	2,000
7711	EDP Hardware	6,000	0	2,000	6,000
7721	EDP Software	1,000	0	0	1,000
	Total Other Expenditures	<u>95,500</u>	<u>29,292</u>	<u>55,200</u>	<u>86,500</u>
	<b>Total Purchasing</b>	<u><u>\$569,400</u></u>	<u><u>\$336,736</u></u>	<u><u>\$526,800</u></u>	<u><u>\$576,100</u></u>

**Schedule I.9  
Administration and Engineering**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>405</b>	<b>ENGINEERING ADMINISTRATION</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$199,900	\$160,953	\$246,200	\$201,000
6100	Union Wages-Except Plant Maintenance	304,500	125,113	192,600	189,300
6300	Vehicle Maintenance	0	672	1,000	2,300
	Total Salaries and Wages	<u>504,400</u>	<u>286,738</u>	<u>439,800</u>	<u>392,600</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	1,500	921	1,000	1,500
6725	Other Communication	3,200	1,995	3,200	3,500
6811	Travel and Expense	2,000	110	200	2,000
7307	Copier Paper	200	285	400	500
7310	Advertising	15,000	6,182	9,200	15,000
7313	Publications	100	0	0	100
7391	Miscellaneous Office Supplies and Materials	25,000	16,244	22,200	25,000
7420	Equipment Repairs and Maintenance	10,000	1,423	2,400	5,000
7429	Registration Fees/Conferences	2,000	0	0	2,000
7432	Freight Charges	0	188	200	200
7438	Printing Charges (Forms, Copies)	10,000	2,406	3,400	10,000
7441	Professional Association Fees	500	50	100	800
7511	Gas and Oil-Vehicles and Equipment	600	195	300	600
7531	Maintenance/Repair-Vehicles and Equipment	300	540	500	500
7711	EDP Hardware	5,000	0	0	1,500
7721	EDP Software	500	0	0	500
7751	Software Support Services	4,000	3,096	3,100	4,000
	Total Other Expenditures	<u>79,900</u>	<u>33,635</u>	<u>46,200</u>	<u>72,700</u>
	<b>Total Engineering Administration</b>	<u><u>\$584,300</u></u>	<u><u>\$320,373</u></u>	<u><u>\$486,000</u></u>	<u><u>\$465,300</u></u>

**Schedule I.10  
Administration and Engineering**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>410</b>	<b>OR/CD ADMINISTRATION</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$52,200	\$32,881	\$50,300	\$51,800
	Total Salaries and Wages	<u>52,200</u>	<u>32,881</u>	<u>50,300</u>	<u>51,800</u>
	<b>Other Expenditures</b>				
6811	Travel and Expense	0	0	0	0
7391	Miscellaneous Office Supplies and Materials	200	55	100	200
7420	Equipment Repairs and Maintenance	500	0	0	0
7457	Special Projects (Consulting Contractor)	40,000	351	1,000	20,000
	Total Other Expenditures	<u>40,700</u>	<u>406</u>	<u>1,100</u>	<u>20,200</u>
	<b>Total OR/CD Administration</b>	<u>\$92,900</u>	<u>\$33,287</u>	<u>\$51,400</u>	<u>\$72,000</u>

**Schedule I.11  
Administration and Engineering**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>420</b>	<b>CAPITAL PROJECTS</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$466,900	\$143,560	\$219,600	\$475,100
6100	Union Wages-Except Plant Maintenance	248,200	165,805	255,200	257,800
	Total Salaries and Wages	<u>715,100</u>	<u>309,365</u>	<u>474,800</u>	<u>732,900</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	4,000	1,338	2,000	4,000
6725	Other Communications	1,200	0	1,200	1,200
6811	Travel and Expense	3,200	26	100	3,200
7391	Miscellaneous Office Supplies and Materials	1,200	0	300	500
7420	Equipment Repairs and Maintenance	500	0	500	500
7429	Registration Fees/Conferences	3,000	0	1,000	3,000
7432	Freight Charges	0	0	0	0
7438	Printing Charges (Forms, Copies)	100	0	100	100
7441	Professional Association Fees	2,400	0	1,500	2,000
7511	Gas and Oil-Vehicles and Equipment	600	138	300	600
7531	Maintenance/Repair-Vehicles and Equipment	1,800	266	500	1,800
7711	EDP Hardware	6,000	0	3,000	6,000
7721	EDP Software	0	0	0	0
	Total Other Expenditures	<u>24,000</u>	<u>1,768</u>	<u>10,500</u>	<u>22,900</u>
	<b>Total Capital Projects</b>	<u>\$739,100</u>	<u>\$311,133</u>	<u>\$485,300</u>	<u>\$755,800</u>

**Schedule I.12  
Administration and Engineering**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>430</b>	<b>CONTRACT ADMINISTRATION</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$462,600	\$182,070	\$278,500	\$438,400
	Total Salaries and Wages	<u>462,600</u>	<u>182,070</u>	<u>278,500</u>	<u>438,400</u>
	<b>Other Expenditures</b>				
6425	Training amd Seminars	4,000	75	100	4,000
6725	Other Communication	1,300	770	2,400	3,500
6811	Travel and Expense	7,000	503	600	3,000
7307	Copier Paper	600	63	200	600
7191	Miscellaneous Office Supplies and Materials	12,000	1,762	3,000	5,000
7420	Equipment Repairs and Maintenance	0	0	0	0
7429	Registration Fees/Conferences	1,200	889	900	1,000
7438	Printing Charges (Forms, Copies)	600	0	0	500
7441	Professional Association Fees	900	0	400	500
7511	Gas & Oil - Vehicles and Equipment	0	1,127	1,200	0
7531	Maint./Repair - Vehicles and Equipment	0	25	100	0
7711	EDP Hardware	6,600	0	0	0
	Total Other Expenditures	<u>34,200</u>	<u>5,214</u>	<u>8,900</u>	<u>18,100</u>
	<b>Total Contract Administration</b>	<u>\$496,800</u>	<u>\$187,284</u>	<u>\$287,400</u>	<u>\$456,500</u>

**Schedule I.13**  
**Administration and Engineering**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>440</b>	<b>CSO PROGRAM MANAGEMENT</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$321,300	\$199,425	\$305,000	\$323,800
6100	Union Wages-Except Plant Maintenance	535,900	342,833	527,700	549,700
	Total Salaries and Wages	<u>857,200</u>	<u>542,258</u>	<u>832,700</u>	<u>873,500</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	2,300	0	500	3,000
6725	Other Communication	0	2,329	3,500	6,000
6811	Travel and Expense	5,500	1,650	1,700	4,000
7191	Miscellaneous Maint. Supplies and Materials	61,500	9,737	24,000	48,300
7313	Publications	1,000	0	0	500
7391	Miscellaneous Office Supplies and Materials	5,000	1,107	1,700	3,000
7429	Registration Fees/Conferences	5,500	0	0	4,100
7438	Printing Charges (Forms, Copies)	500	334	400	500
7441	Professional Association Fees	900	335	900	900
7511	Gas and Oil-Vehicles and Equipment	7,500	2,242	4,800	7,000
7531	Maintenance/Repair-Vehicles and Equipment	7,000	5,815	7,000	7,000
7711	EDP Hardware	23,100	12,976	17,000	14,000
7721	EDP Software	500	0	0	500
	Total Other Expenditures	<u>120,300</u>	<u>36,525</u>	<u>61,500</u>	<u>98,800</u>
	<b>Total CSO Program Management</b>	<u><u>\$977,500</u></u>	<u><u>\$578,783</u></u>	<u><u>\$894,200</u></u>	<u><u>\$972,300</u></u>

**Schedule I.14  
Administration and Engineering**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>540</b>	<b>ECM/ENVIRONMENTAL REPORTING</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$206,100	\$85,857	\$131,300	\$215,100
	Total Salaries and Wages	<u>206,100</u>	<u>85,857</u>	<u>131,300</u>	<u>215,100</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	10,000	70	100	4,000
6725	Other Communication	0	0	400	800
6811	Travel and Expense	10,000	0	0	5,000
7391	Miscellaneous Office Supplies and Materials	1,500	399	600	1,500
7429	Registration Fees/Conferences	5,000	0	0	3,000
7438	Printing Charges (Forms, Copies)	3,000	0	100	1,000
7441	Professional Association Fees	1,000	0	0	800
7711	EDP Hardware	5,000	30	3,800	4,000
7721	EDP Software	1,500	0	0	1,500
7751	Software Support Services	0	344	400	0
	Total Other Expenditures	<u>37,000</u>	<u>843</u>	<u>5,400</u>	<u>21,600</u>
	<b>Total ECM/Environmental Reporting</b>	<u>\$243,100</u>	<u>\$86,700</u>	<u>\$136,700</u>	<u>\$236,700</u>

# **Schedule II**

## **Management Information Systems**

**Schedule II  
Management Information Systems**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>200</b>	<b>MANAGEMENT INFORMATION SYSTEMS</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$244,800	\$165,609	\$253,300	\$365,400
6100	Union Wages-Except Plant Maintenance	1,567,200	961,152	1,479,300	1,586,500
	Total Salaries and Wages	<u>1,812,000</u>	<u>1,126,761</u>	<u>1,732,600</u>	<u>1,951,900</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	20,000	0	3,000	10,000
6725	Other Communications	139,000	46,991	47,000	161,900
6811	Travel and Expense	200	0	200	200
6921	Electricity	6,300	3,449	6,000	6,300
7307	Copier Paper	1,600	62	200	1,600
7313	Publications	500	0	100	300
7391	Miscellaneous Office Supplies and Materials	17,500	6,640	10,700	13,000
7420	Equipment Repairs and Maintenance	20,000	5,107	11,200	10,500
7423	Equipment Rental	100	0	100	200
7429	Registration Fees/Conferences	300	0	100	300
7432	Freight Charges	100	0	0	0
7438	Printing Charges (Forms, Copies)	100	0	200	100
7441	Professional Association Fees	800	0	600	800
7511	Gas and Oil-Vehicles and Equipment	700	207	500	500
7531	Maintenance/Repair-Vehicles and Equipment	700	38	100	400
7711	EDP Hardware	145,000	126,910	137,000	145,000
7721	EDP Software	325,000	289,915	290,500	24,000
7731	EDP Maintenance Service	48,200	60,068	103,300	55,200
7751	Software Supportive Service	485,900	413,140	592,000	996,500
	Total Other Expenditures	<u>1,212,000</u>	<u>952,527</u>	<u>1,202,800</u>	<u>1,426,800</u>
	<b>Total Management Information Systems</b>	<u>\$3,024,000</u>	<u>\$2,079,288</u>	<u>\$2,935,400</u>	<u>\$3,378,700</u>

# **Schedule III**

## **Customer Service and Billing**

### Schedule III Customer Service and Billing

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>300</b>	<b>CUSTOMER SERVICE AND BILLING</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$255,700	\$164,994	\$252,300	\$320,400
6100	Union Wages-Except Plant Maintenance	<u>1,291,200</u>	<u>751,697</u>	<u>1,157,000</u>	<u>1,255,600</u>
	Total Salaries and Wages	<u>1,546,900</u>	<u>916,691</u>	<u>1,409,300</u>	<u>1,576,000</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	2,500	0	600	2,500
6711	Postage	7,000	4,453	6,700	7,000
6725	Other Communication	1,500	776	1,200	1,500
6811	Travel and Expense	100	0	100	100
6921	Electricity	50,000	20,432	40,000	50,000
6931	Natural Gas	15,000	3,028	9,000	15,000
6941	Water	5,000	5,881	8,000	9,000
7307	Copier Paper	3,000	441	2,000	3,000
7313	Publications	1,000	0	200	1,000
7391	Miscellaneous Office Supplies and Materials	7,000	10,393	14,000	15,000
7420	Equipment Repairs and Materials	10,000	145	3,000	10,000
7423	Equipment Rental	1,000	0	200	1,000
7429	Registration Fees/Conferences	1,000	0	300	1,000
7438	Printing Charges (Forms, Copies)	2,000	0	500	2,000
7441	Professional Association Fees	600	0	200	600
7462	Service Charge-Billing	215,000	117,656	207,000	215,000
7465	Service Charge-Collection	12,000	2,952	20,000	60,000
7468	Refunds to Municipalities/Bulk	1,012,000	980,476	980,500	1,012,000
7470	Customer Assistance Program	580,000	0	770,000	850,000
7511	Gas and Oil-Vehicles and Equipment	3,000	86	500	3,000
7531	Maintenance/Repair-Vehicles and Equipment	3,000	259	500	3,000
7711	EDP Hardware	24,000	0	6,000	24,000
	Total Other Expenditures	<u>1,955,700</u>	<u>1,146,978</u>	<u>2,070,500</u>	<u>2,285,700</u>
	<b>Total Customer Service and Billing</b>	<u><u>\$3,502,600</u></u>	<u><u>\$2,063,669</u></u>	<u><u>\$3,479,800</u></u>	<u><u>\$3,861,700</u></u>

# **Schedule IV Environmental Compliance**

## Schedule IV.1 Environmental Compliance

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>505</b>	<b>ENVIRONMENTAL COMPLIANCE</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	<u>\$261,000</u>	<u>\$166,647</u>	<u>\$254,900</u>	<u>\$282,100</u>
	Total Salaries and Wages	<u>261,000</u>	<u>166,647</u>	<u>254,900</u>	<u>282,100</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	3,000	0	1,000	2,500
6811	Travel and Expense	1,000	0	100	1,000
7313	Publications	1,000	0	0	1,000
7391	Miscellaneous Office Supplies and Materials	5,500	9,256	500	5,500
7420	Equipment Repairs and Maintenance	5,500	0	1,000	5,500
7429	Registration Fees/Conferences	1,000	0	500	1,000
7438	Printing Charges (Forms, Copies)	500	0	100	500
7441	Professional Association Fees	1,000	0	500	1,000
7442	Hazardous Materials Disposal	30,000	11,246	10,000	30,000
7457	Special Projects	10,000	0	1,000	10,000
7471	Permits and Equipment Registration	173,500	25,769	10,000	173,500
7511	Gas and Oil-Vehicles and Equipment	600	191	200	600
7531	Maintenance/Repair-Vehicles and Equipment	500	672	500	1,000
7711	EDP Hardware	2,000	987	0	2,000
7721	EDP Software	0	0	0	0
7751	Software Support Services	0	172	0	200
	Total Other Expenditures	<u>235,100</u>	<u>48,293</u>	<u>25,400</u>	<u>235,300</u>
	<b>Total Environmental Compliance</b>	<u><u>\$496,100</u></u>	<u><u>\$214,940</u></u>	<u><u>\$280,300</u></u>	<u><u>\$517,400</u></u>

## Schedule IV.2 Environmental Compliance

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>510</b>	<b>LABORATORY</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$263,600	\$171,719	\$262,600	\$266,700
6100	Union Wages-Except Plant Maintenance	1,344,200	819,351	1,261,100	1,323,000
	Total Salaries and Wages	<u>1,607,800</u>	<u>991,070</u>	<u>1,523,700</u>	<u>1,589,700</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	20,000	900	1,400	2,500
7251	Pretreatment Supplies and Expenses	500	0	0	0
7291	Miscellaneous Lab Supplies and Glass	200,000	98,219	147,400	200,000
7307	Copier Paper	1,500	409	700	1,500
7313	Publications	500	0	0	0
7391	Miscellaneous Office Supplies and Materials	10,000	13,314	20,000	20,000
7420	Equipment Repairs and Maintenance	75,000	27,953	42,000	50,000
7429	Registration Fees/Conferences	0	350	600	0
7432	Freight Charges	0	426	700	0
7435	Demurrage Charges	50,000	23,352	35,100	30,000
7441	Professional Association Fees	500	650	1,000	1,000
7444	Outside Laboratory Services	180,000	87,450	131,200	180,000
7511	Gas and Oil-Vehicle and Equipment	500	184	300	500
7531	Maintenance/Repair-Vehicles and Equipment	500	38	100	500
7711	EDP Hardware	3,000	1,116	1,700	5,000
7721	EDP Software	500	1,513	2,300	1,000
7900	Laboratory Chemicals	150,000	77,965	117,000	150,000
	Total Other Expenditures	<u>692,500</u>	<u>333,839</u>	<u>501,500</u>	<u>642,000</u>
	<b>Total Laboratory</b>	<u><u>\$2,300,300</u></u>	<u><u>\$1,324,909</u></u>	<u><u>\$2,025,200</u></u>	<u><u>\$2,231,700</u></u>

### Schedule IV.3 Environmental Compliance

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>520</b>	<b>INDUSTRIAL WASTE</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$242,000	\$150,380	\$230,000	\$237,500
6100	Union Wages-Except Plant Maintenance	1,339,200	771,142	1,186,900	1,366,700
6300	Vehicle Maintenance Labor	700	672	1,000	2,300
	Total Salaries and Wages	<u>1,581,900</u>	<u>922,194</u>	<u>1,417,900</u>	<u>1,606,500</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	6,000	0	1,200	6,000
6725	Other Communication	8,200	6,006	9,000	8,200
6811	Travel and Expense	8,000	560	800	6,000
7251	Pretreatment Supplies and Expenses	45,000	14,876	22,300	45,000
7255	Pollution Prevention Program Expense	1,000	0	0	1,000
7307	Copier Paper	700	376	700	1,000
7391	Miscellaneous Office Supplies and Materials	7,500	24,383	36,600	7,500
7420	Equipment Repairs and Maintenance	3,100	0	0	3,100
7429	Registration Fees/Conferences	700	0	0	700
7438	Prining Charges (Forms, Copies)	1,000	0	0	1,000
7441	Professional Association Fees	1,200	0	0	1,200
7457	Special Projects	228,000	0	0	200,000
7511	Gas and Oil-Vehicles and Equipment	15,000	3,668	5,500	15,000
7531	Maintenance/Repair-Vehicles and Equipment	10,000	6,587	9,900	15,000
7711	EDP Hardware	25,000	140	200	25,000
7721	EDP Software	80,000	0	0	45,000
7751	Software Supportive Service	0	45,668	68,500	45,000
	Total Other Expenditures	<u>440,400</u>	<u>102,264</u>	<u>154,700</u>	<u>425,700</u>
	<b>Total Industrial Waste</b>	<u>\$2,022,300</u>	<u>\$1,024,458</u>	<u>\$1,572,600</u>	<u>\$2,032,200</u>

## Schedule IV.4 Environmental Compliance

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>530</b>	<b>DIVERSE RESIDUALS MANAGEMENT</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$192,400	\$127,077	\$194,400	\$200,700
6100	Union Wages-Except Plant Maintenance	45,300	31,431	48,100	51,400
6300	Vehicle Maintenance Labor	4,600	0	0	0
	Total Salaries and Wages	<u>242,300</u>	<u>158,508</u>	<u>242,500</u>	<u>252,100</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	3,000	184	800	1,500
6811	Travel and Expense	3,000	0	300	1,500
7313	Publications	1,000	0	300	1,000
7391	Miscellaneous Office Supplies and Materials	5,000	2,194	3,000	5,000
7429	Registration Fees/Conferences	2,000	0	500	1,500
7438	Printing Charges (Forms, Copies)	5,000	0	1,500	4,000
7441	Professional Association Fees	3,000	899	3,000	3,000
7444	Outside Laboratory Service	5,000	100	2,000	5,000
7457	Special Projects	25,000	0	2,000	15,000
7511	Gas and Oil-Vehicles and Equipment	3,000	68	500	1,000
7531	Maintenance/Repair-Vehicles and Equipment	1,000	152	500	1,000
7711	EDP Hardware	6,000	0	2,000	5,000
7721	EDP Software	40,000	0	0	40,000
	Total Other Expenditures	<u>102,000</u>	<u>3,597</u>	<u>16,400</u>	<u>84,500</u>
		<u>\$344,300</u>	<u>\$162,105</u>	<u>\$258,900</u>	<u>\$336,600</u>

# **Schedule V Interceptor System**

**Schedule V.1  
Interceptor System**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>605</b>	<b>REGIONAL CONVEYANCE ADMINISTRATION</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	<u>\$864,500</u>	<u>\$343,519</u>	<u>\$525,400</u>	<u>\$850,200</u>
	Total Salaries and Wages	<u>864,500</u>	<u>343,519</u>	<u>525,400</u>	<u>850,200</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	10,000	0	0	7,500
6725	Other Communcation	25,000	0	0	5,000
6811	Travel and Expense	10,000	86	500	10,000
7313	Publications	600	507	600	600
7391	Miscellaneous Office Supplies and Materials	15,000	7,484	10,000	15,000
7429	Registration Fees/Conferences	5,000	1,180	1,200	3,000
7438	Printing Charges (Forms, Copies)	200	0	100	200
7441	Professional Association Fees	800	310	500	800
7457	Special Projects	200	0	0	200
7511	Gas and Oil-Vehicles and Equipment	800	451	700	800
7531	Maintenance/Repair-Vehicles & Equipment	2,400	290	500	1,000
7711	EDP Hardware	15,000	619	1,000	5,000
7721	EDP Software	5,000	7,728	10,000	10,000
7731	EDP Maintenance Service	<u>23,000</u>	<u>11,836</u>	<u>20,000</u>	<u>25,000</u>
	Total Other Expenditures	<u>113,000</u>	<u>30,491</u>	<u>45,100</u>	<u>84,100</u>
	<b>Total Regional Conveyance Administration</b>	<u><u>\$977,500</u></u>	<u><u>\$374,010</u></u>	<u><u>\$570,500</u></u>	<u><u>\$934,300</u></u>

**Schedule V.2  
Interceptor System**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>610</b>	<b>GENERAL-UPPER ALLEGHENY SYSTEM</b>				
	<b>Salaries and Wages</b>				
6200	Outside Maintenance Labor	\$78,300	\$39,259	\$60,400	\$70,900
6250	Inside Maintenance Labor	800	0	0	800
6300	Vehicle Maintenance Labor	7,600	5,852	9,000	19,700
	Total Salaries and Wages	<u>86,700</u>	<u>45,111</u>	<u>69,400</u>	<u>91,400</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	2,000	0	500	1,500
7110	Intrumentation Repair & Maintenance	200	0	0	200
7191	Miscellaneous Maintenance Supplies & Expenses	500	0	300	300
7420	Equipment Repairs aand Maintenance	1,000	0	0	1,000
	Total Other Expenditures	<u>3,700</u>	<u>0</u>	<u>800</u>	<u>3,000</u>
	<b>Total General-Upper Allegheny System</b>	<u>\$90,400</u>	<u>\$45,111</u>	<u>\$70,200</u>	<u>\$94,400</u>

**Schedule V.3  
Interceptor System**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>620</b>	<b>VERONA PUMP STATION</b>				
	<b>Salaries and Wages</b>				
6200	Outside Maintenance Labor	\$44,100	\$13,576	\$20,900	\$24,500
6250	Inside Maintenance Labor	500	0	0	300
	Total Salaries and Wages	<u>44,600</u>	<u>13,576</u>	<u>20,900</u>	<u>24,800</u>
	<b>Other Expenditures</b>				
6921	Electricity	14,000	8,422	13,000	14,000
6941	Water	4,000	1,532	3,000	3,500
7106	Expendable Parts and Tools	10,000	714	5,000	10,000
7110	Instrumentation Repair/Maintenance	7,000	1,244	2,000	6,000
7191	Miscellaneous Maintenance Supplies and Expenses	3,000	2,216	3,000	3,000
7511	Gas and Oil-Vehicles and Equipment	500	0	100	500
	Total Other Expenditures	<u>38,500</u>	<u>14,128</u>	<u>26,100</u>	<u>37,000</u>
	<b>Total Verona Pump Station</b>	<u><u>\$83,100</u></u>	<u><u>\$27,704</u></u>	<u><u>\$47,000</u></u>	<u><u>\$61,800</u></u>

**Schedule V.4  
Interceptor System**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>630</b>	<b>SQUAW RUN PUMP STATION</b>				
	<b>Salaries and Wages</b>				
6200	Outside Maintenance Labor	\$34,100	\$13,343	\$20,500	\$24,100
6250	Inside Maintenance Labor	400	0	0	300
	Total Salaries and Wages	<u>34,500</u>	<u>13,343</u>	<u>20,500</u>	<u>24,400</u>
	<b>Other Expenditures</b>				
6921	Electricity	18,000	9,258	16,000	18,000
6941	Water	5,000	4,190	7,000	5,000
7106	Expendable Parts and Tools	10,000	0	5,000	10,000
7110	Instrumentation Repair/Maintenance	7,000	2,337	4,000	7,000
7191	Miscellaneous Maintenance Supplies and Expenses	5,000	6,369	8,000	5,000
7458	Vacuum/Jet Services	0	0	0	0
7511	Gas and Oil-Vehicles and Equipment	500	0	200	500
	Total Other Expenditures	<u>45,500</u>	<u>22,154</u>	<u>40,200</u>	<u>45,500</u>
	<b>Total Squaw Run Pump Station</b>	<u><u>\$80,000</u></u>	<u><u>\$35,497</u></u>	<u><u>\$60,700</u></u>	<u><u>\$69,900</u></u>

**Schedule V.5  
Interceptor System**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>640</b>	<b>MONTROSE EJECTOR STATION</b>				
	<b>Salaries and Wages</b>				
6200	Outside Maintenance Labor	\$32,400	\$16,066	\$24,700	\$29,000
6250	Inside Maintenance Labor	400	0	0	400
	Total Salaries and Wages	<u>32,800</u>	<u>16,066</u>	<u>24,700</u>	<u>29,400</u>
	<b>Other Expenditures</b>				
6921	Electricity	8,000	3,756	6,500	7,000
7106	Expendable Parts and Tools	10,000	0	1,000	8,000
7110	Instrumentation Repair/Maintenance	7,000	4,260	6,000	7,000
7191	Miscellaneous Maintenance Supplies and Expenses	2,000	25	1,000	2,000
7420	Equipment Repairs and Maintenance	3,000	0	0	2,000
7511	Gas and Oil-Vehicles and Equipment	400	0	300	300
	Total Other Expenditures	<u>30,400</u>	<u>8,041</u>	<u>14,800</u>	<u>26,300</u>
	<b>Total Montrose Ejector Station</b>	<u><u>\$63,200</u></u>	<u><u>\$24,107</u></u>	<u><u>\$39,500</u></u>	<u><u>\$55,700</u></u>

**Schedule V.6  
Interceptor System**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>650</b>	<b>SAW MILL RUN</b>				
	<b>Salaries and Wages</b>				
6200	Outside Maintenance Labor	\$97,300	\$24,810	\$38,200	\$44,800
6250	Inside Maintenance Labor	1,000	0	0	600
6300	Vehicle Maintenance Labor	3,900	3,058	4,700	10,300
	Total Salaries and Wages	<u>102,200</u>	<u>27,868</u>	<u>42,900</u>	<u>55,700</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	3,000	0	500	2,000
7191	Miscellaneous Maintenance Supplies and Expenses	500	0	100	500
7531	Maintenance/Repair-Vehicles and Equipment	0	0	0	0
	Total Other Expenditures	<u>3,500</u>	<u>0</u>	<u>600</u>	<u>2,500</u>
	<b>Total Saw Mill Run</b>	<u>\$105,700</u>	<u>\$27,868</u>	<u>\$43,500</u>	<u>\$58,200</u>

**Schedule V.7  
Interceptor System**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>660</b>	<b>REGIONALIZED FACILITIES</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$80,000	\$0	\$0	\$80,000
6100	UnionWages - Except Pit	303,400	0	0	906,800
	Total Salaries and Wages	<u>383,400</u>	<u>0</u>	<u>0</u>	<u>986,800</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	50,000	0	0	50,000
7110	Instrumentation Repair and Maintenance	10,000	0	0	10,000
7191	Miscellaneous Maintenance Supplies and Expenses	500,000	0	0	500,000
7420	Equipment Repairs and Maintenance	0	0	0	0
	Total Other Expenditures	<u>560,000</u>	<u>0</u>	<u>0</u>	<u>560,000</u>
	<b>Total Regionalized Facilities</b>	<u>\$943,400</u>	<u>\$0</u>	<u>\$0</u>	<u>\$1,546,800</u>

**Schedule V.8  
Interceptor System**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>690</b>	<b>GENERAL-EXCEPT UPPER ALLEGHENY</b>				
	<b>Salaries and Wages</b>				
6200	Outside Maintenance Labor	\$4,689,800	\$2,281,201	\$3,511,000	\$4,116,800
6250	Inside Maintenance Labor	45,400	0	0	46,100
6300	Vehicle Maintenance Labor	39,100	15,115	23,300	50,900
	Total Salaries and Wages	<u>4,774,300</u>	<u>2,296,316</u>	<u>3,534,300</u>	<u>4,213,800</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	15,000	586	3,000	15,000
6725	Other Communcation	4,000	12,461	19,000	20,000
6921	Electricity	4,000	1,662	2,500	3,000
6931	Natural Gas	5,000	0	0	0
6941	Water	1,000	0	0	0
7106	Expendable Parts and Tools	50,000	10,554	20,000	50,000
7110	Instrumentation Repair and Maintenance	6,000	2,205	3,000	6,000
7191	Miscellaneous Maintenance Supplies and Expenses	60,000	33,890	45,000	55,000
7420	Equipment Repairs and Maintenance	30,000	4,458	7,000	25,000
7473	Interceptor Cleaning & Inspection	6,000,000	330,026	2,100,000	5,000,000
7475	Disaster Recovery Services	5,000	0	0	5,000
7511	Gas and Oil-Vehicles and Equipment	60,000	21,823	40,000	50,000
7521	Gas and Oil-Watercraft	20,000	9,081	14,000	20,000
7531	Maintenance/Repair-Vehicles and Equipment	130,000	83,957	120,000	120,000
7541	Maintenance/Repair-Watercraft	20,000	9,961	15,000	20,000
	Total Other Expenditures	<u>6,410,000</u>	<u>520,664</u>	<u>2,388,500</u>	<u>5,389,000</u>
	<b>Total General-Except Upper Allegheny System</b>	<u>\$11,184,300</u>	<u>\$2,816,980</u>	<u>\$5,922,800</u>	<u>\$9,602,800</u>

**Schedule V.9  
Interceptor System**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>691</b>	<b>CORLISS PUMP STATION</b>				
	<b>Salaries and Wages</b>				
6200	Outside Maintenance Labor	\$63,400	\$17,112	\$26,300	\$30,900
6250	Inside Maintenance Labor	700	0	0	400
	Total Salaries and Wages	<u>64,100</u>	<u>17,112</u>	<u>26,300</u>	<u>31,300</u>
	<b>Other Expenditures</b>				
6921	Electricity	42,000	23,578	40,000	41,000
6941	Water	300	0	100	200
7106	Expendable Parts and Tools	15,000	0	10,000	15,000
7110	Instrumentation Repair/Maintenance	5,000	155	2,000	5,000
7191	Miscellaneous Maintenance Supplies and Expenses	4,000	1,112	2,000	3,000
7420	Equipment Repairs and Maintenance	500	0	0	500
	Total Other Expenditures	<u>66,800</u>	<u>24,845</u>	<u>54,100</u>	<u>64,700</u>
	<b>Total Corliss Pump Station</b>	<u><u>\$130,900</u></u>	<u><u>\$41,957</u></u>	<u><u>\$80,400</u></u>	<u><u>\$96,000</u></u>

**Schedule V.10  
Interceptor System**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>692</b>	<b>MELANCTHON EJECTOR STATION</b>				
	<b>Salaries and Wages</b>				
6200	Outside Maintenance Labor	\$32,700	\$14,211	\$21,900	\$25,700
6250	Inside Maintenance Labor	400	0	0	300
	Total Salaries and Wages	<u>33,100</u>	<u>14,211</u>	<u>21,900</u>	<u>26,000</u>
	<b>Other Expenditures</b>				
6921	Electricity	7,000	4,207	7,000	7,000
6941	Water	400	249	400	400
7106	Expendable Parts and Tools	5,000	335	1,000	4,000
7110	Instrumentation Repair/Maintenance	1,000	970	1,000	1,000
7191	Miscellaneous Maintenance Supplies and Expenses	1,000	495	1,200	1,000
	Total Other Expenditures	<u>14,400</u>	<u>6,256</u>	<u>10,600</u>	<u>13,400</u>
	<b>Total Melancthon Ejector Station</b>	<u><u>\$47,500</u></u>	<u><u>\$20,467</u></u>	<u><u>\$32,500</u></u>	<u><u>\$39,400</u></u>

**Schedule V.11  
Interceptor System**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>694</b>	<b>ELLA STREET PUMP STATION</b>				
	<b>Salaries and Wages</b>				
6200	Outside Maintenance Labor	\$60,700	\$27,875	\$42,900	\$50,400
6250	Inside Maintenance Labor	600	0	0	600
	Total Salaries and Wages	<u>61,300</u>	<u>27,875</u>	<u>42,900</u>	<u>51,000</u>
	<b>Other Expenditures</b>				
6921	Electricity	27,000	15,824	28,000	27,000
6931	Natural Gas	6,000	358	2,000	5,000
6941	Water	300	239	400	400
7106	Expendable Parts and Tools	5,000	682	2,000	4,000
7110	Instrumentation Repair/Maintenance	6,000	2,711	5,000	6,000
7191	Miscellaneous Maintenance Supplies and Expenses	3,000	1,360	2,000	3,000
7420	Equipment Repairs and Maintenance	5,000	0	500	4,000
7511	Gas and Oil-Vehicle and Equipment	1,000	0	200	500
	Total Other Expenditures	<u>53,300</u>	<u>21,174</u>	<u>40,100</u>	<u>49,900</u>
	<b>Total Ella Street Pump Station</b>	<u>\$114,600</u>	<u>\$49,049</u>	<u>\$83,000</u>	<u>\$100,900</u>

**Schedule V.12  
Interceptor System**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>695</b>	<b>SANDY CREEK PUMP STATION</b>				
	<b>Salaries and Wages</b>				
6200	Outside Maintenance Labor	\$43,800	\$27,375	\$42,100	\$49,500
6250	Inside Maintenance Labor	500	0	0	600
	Total Salaries and Wages	<u>44,300</u>	<u>27,375</u>	<u>42,100</u>	<u>50,100</u>
	<b>Other Expenditures</b>				
6921	Electricity	70,000	36,442	63,000	67,000
6931	Natural Gas	4,000	1,509	3,000	4,000
6941	Water	2,000	2,194	3,000	3,000
7106	Expendable Parts and Tools	20,000	11,842	18,000	20,000
7110	Instrumentation Repair/Maintenance	10,000	2,407	3,000	8,000
7191	Miscellaneous Maintenance Supplies and Expenses	5,000	5,828	9,000	5,000
7511	Gas and Oil-Vehicles and Equipment	1,000	0	300	700
	Total Other Expenditures	<u>112,000</u>	<u>60,222</u>	<u>99,300</u>	<u>107,700</u>
	<b>Total Sandy Creek Pump Station</b>	<u>\$156,300</u>	<u>\$87,597</u>	<u>\$141,400</u>	<u>\$157,800</u>

**Schedule V.13  
Interceptor System**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>697</b>	<b>U5 Ejector Station</b>				
	<b>Salaries and Wages</b>				
6200	Outside Maintenance Labor	\$0	\$0	\$0	\$0
6250	Inside Maintenance Labor	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	0	0	0	0
7110	Instrumentation Repair/Maintenance	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Other Expenditures	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Total U5 Ejector Station</b>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>

# **Schedule VI Plant Operations**

## Schedule VI.1 Plant Operations

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>125</b>	<b>SAFETY</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$445,800	\$287,960	\$440,400	\$516,700
6100	Union Wages-Except Plant	954,100	532,795	820,000	987,100
	Total Salaries and Wages	<u>1,399,900</u>	<u>820,755</u>	<u>1,260,400</u>	<u>1,503,800</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	48,000	2,937	8,000	45,000
6517	Physical Examinations	9,000	0	3,000	9,000
6811	Travel and Expense	8,000	0	0	5,000
7011	Plant Security	34,000	7,965	15,000	34,000
7313	Publications	15,000	419	10,000	21,000
7391	Miscellaneous Office Supplies and Materials	20,000	9,078	15,000	20,000
7420	Equipment Repairs and Maintenance	18,000	2,341	6,000	16,000
7441	Professional Association Fees	2,300	675	1,000	2,000
7457	Special Projects	10,000	6,750	10,000	10,000
7511	Gas & Oil-Vehicle & Equipment	6,000	1,005	3,000	6,000
7531	Maintenance/Repair-Vehicles and Equipment	8,000	4,514	8,000	8,000
7711	EDP Hardware	6,000	0	2,000	6,000
7762	Prescription Safety Glass Program	8,000	3,518	6,000	8,000
7764	Safety Shoe Program	12,000	5,285	12,000	12,000
7766	Industrial Hygiene	5,000	785	2,000	5,000
7770	Safety Equipment	39,000	17,854	25,000	35,000
7776	Fire Extinguishing Inspection and Recharging	34,000	20,259	35,000	36,000
	Total Other Expenditures	<u>282,300</u>	<u>83,385</u>	<u>161,000</u>	<u>278,000</u>
	<b>Total Safety</b>	<u><u>\$1,682,200</u></u>	<u><u>\$904,140</u></u>	<u><u>\$1,421,400</u></u>	<u><u>\$1,781,800</u></u>

## Schedule VI.2 Plant Operations

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>705</b>	<b>OPERATIONS AND MAINTENANCE ADMINISTRATION</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$333,700	\$219,690	\$336,000	\$345,700
6100	Union Wages - Except Plant	0	5,450	8,400	0
6300	Vehicle Maintenance Labor	1,000	0	0	0
	Total Salaries and Wages	<u>334,700</u>	<u>225,140</u>	<u>344,400</u>	<u>345,700</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	2,000	418	1,000	2,000
6725	Other Communications	19,000	11,313	19,400	19,000
6811	Travel and Expense	3,000	43	100	2,000
7391	Miscellaneous Office Supplies and Materials	16,000	8,128	14,000	14,000
7429	Registration Fees/Conferences	2,000	0	0	2,000
7441	Professional Association Fees	2,000	864	1,000	2,000
7511	Gas and Oil-Vehicles and Equipment	1,200	361	500	1,000
7531	Maintenance/Repair-Vehicles and Equipment	500	948	1,000	1,000
7711	EDP Hardware	2,000	0	0	0
	Total Other Expenditures	<u>47,700</u>	<u>22,075</u>	<u>37,000</u>	<u>43,000</u>
	<b>Total Operations and Maintenance Admin.</b>	<u><u>\$382,400</u></u>	<u><u>\$247,215</u></u>	<u><u>\$381,400</u></u>	<u><u>\$388,700</u></u>

## Schedule VI.3 Plant Operations

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>710</b>	<b>MAIN PUMP STATION</b>				
	<b>Salaries and Wages</b>				
6100	Union Wages-Except Plant Maintenance	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Other Expenditures</b>				
6921	Electricity	1,600,000	1,023,695	1,650,000	1,650,000
7091	Miscellaneous Operating Supplies and Materials	1,000	0	0	1,000
7420	Equipment Repairs and Maintenance	<u>4,000</u>	<u>2,345</u>	<u>4,000</u>	<u>4,000</u>
	Total Other Expenditures	<u>1,605,000</u>	<u>1,026,040</u>	<u>1,654,000</u>	<u>1,655,000</u>
	<b>Total Main Pump Station</b>	<u><u>\$1,605,000</u></u>	<u><u>\$1,026,040</u></u>	<u><u>\$1,654,000</u></u>	<u><u>\$1,655,000</u></u>

## Schedule VI.4 Plant Operations

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>720</b>	<b>RACK AND GRIT</b>				
	<b>Salaries and Wages</b>				
6100	Union Wages-Except Plant Maintenance	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Other Expenditures</b>				
6941	Water	222,000	174,041	261,000	310,000
7091	Miscellaneous Operating Supplies and Materials	1,000	308	1,000	1,000
7821	Caustic Soda	20,000	4,584	10,000	10,000
7828	Sodium Hypochlorite	500,000	282,308	450,000	472,500
7845	Hydrochloric Acid	1,200	0	0	1,000
	Total Other Expenditures	<u>744,200</u>	<u>461,241</u>	<u>722,000</u>	<u>794,500</u>
	<b>Total Rack and Grit</b>	<u><u>\$744,200</u></u>	<u><u>\$461,241</u></u>	<u><u>\$722,000</u></u>	<u><u>\$794,500</u></u>

## Schedule VI.5 Plant Operations

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>730</b>	<b>MOBILE EQUIPMENT FOR TREATMENT</b>				
	<b>Salaries and Wages</b>				
6100	Union Wages-Except Plant Maintenance	\$390,400	\$219,547	\$337,900	\$415,100
6300	Vehicle Maintenance Labor	<u>504,400</u>	<u>110,471</u>	<u>170,000</u>	<u>371,700</u>
	Total Salaries and Wages	<u>894,800</u>	<u>330,018</u>	<u>507,900</u>	<u>786,800</u>
	<b>Other Expenditures</b>				
6921	Electricity	40,000	28,112	42,000	42,000
6931	Natural Gas	20,000	13,066	22,000	22,000
6941	Water	2,800	1,662	2,300	2,400
7511	Gas and Oil-Vehicles and Equipment	50,000	17,738	40,000	40,000
7531	Maintenance/Repairs-Vehicles and Equipment	45,000	33,918	50,000	55,000
7532	Maintenance/Repairs-Hauling Trucks	70,000	85,297	100,000	75,000
7541	Maintenance/Repairs-Watercraft	<u>10,000</u>	<u>2,404</u>	<u>5,000</u>	<u>10,000</u>
	Total Other Expenditures	<u>237,800</u>	<u>182,197</u>	<u>261,300</u>	<u>246,400</u>
	<b>Total Mobile Equipment for Treatment</b>	<u><u>\$1,132,600</u></u>	<u><u>\$512,215</u></u>	<u><u>\$769,200</u></u>	<u><u>\$1,033,200</u></u>

## Schedule VI.6 Plant Operations

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>740</b>	<b>PRIMARY SEDIMENTATION</b>				
	<b>Salaries and Wages</b>				
6100	Union Wages-Except Plant Maintenance	<u>\$3,015,100</u>	<u>\$1,748,297</u>	<u>\$2,690,800</u>	<u>\$2,768,300</u>
	Total Salaries and Wages	<u>3,015,100</u>	<u>1,748,297</u>	<u>2,690,800</u>	<u>2,768,300</u>
	<b>Other Expenditures</b>				
6941	Water	55,500	40,148	60,000	71,400
7091	Miscellaneous Operating Supplies and Materials	2,500	20	2,000	2,000
7420	Equipment Repairs and Maintenance	1,000	0	0	0
7821	Caustic Soda	20,000	4,132	10,000	10,000
7828	Sodium Hypochlorite	50,000	26,453	42,000	44,100
7845	Hydrochloric Acid	1,200	0	500	1,000
7856	Miscellaneous Plant Chemicals	<u>1,000</u>	<u>0</u>	<u>0</u>	<u>1,000</u>
	Total Other Expenditures	<u>131,200</u>	<u>70,753</u>	<u>114,500</u>	<u>129,500</u>
	<b>Total Primary Sedimentation</b>	<u><u>\$3,146,300</u></u>	<u><u>\$1,819,050</u></u>	<u><u>\$2,805,300</u></u>	<u><u>\$2,897,800</u></u>

## Schedule VI.7 Plant Operations

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>750</b>	<b>DISPOSAL OF SLUDGE, ASH, AND GRIT</b>				
	<b>Salaries and Wages</b>	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Other Expenditures</b>				
7447	Tipping Fees-Sludge	225,000	153,626	260,000	275,000
7450	Tipping Fees-Ash	275,000	146,608	250,000	265,000
7453	Tipping Fees-Grit	27,000	10,073	15,000	17,000
7455	Tipping Fees-Trash	5,500	2,835	5,000	5,500
7459	Land Application Disposal	<u>1,500,000</u>	<u>847,508</u>	<u>1,460,000</u>	<u>1,600,000</u>
	Total Other Expenditures	<u>2,032,500</u>	<u>1,160,650</u>	<u>1,990,000</u>	<u>2,162,500</u>
	<b>Total Disposal of Sludge, Ash, and Grit</b>	<u><u>\$2,032,500</u></u>	<u><u>\$1,160,650</u></u>	<u><u>\$1,990,000</u></u>	<u><u>\$2,162,500</u></u>

## Schedule VI.8 Plant Operations

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>760</b>	<b>BOILERS</b>				
	<b>Salaries and Wages</b>				
6100	Union Wages-Except Plant Maintenance	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Other Expenditures</b>				
6931	Natural Gas	250,000	113,369	195,000	225,000
7091	Miscellaneous Operating Supplies and Materials	25,000	0	0	25,000
7420	Equipment Repairs and Maintenance	8,000	0	8,000	8,000
	Total Other Expenditures	<u>283,000</u>	<u>113,369</u>	<u>203,000</u>	<u>258,000</u>
	<b>Total Boilers</b>	<u><u>\$283,000</u></u>	<u><u>\$113,369</u></u>	<u><u>\$203,000</u></u>	<u><u>\$258,000</u></u>

## Schedule VI.9 Plant Operations

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>770</b>	<b>ENERGY RECOVERY</b>				
	<b>Salaries and Wages</b>				
6100	Union Wages-Except Plant Maintenance	<u>\$2,033,700</u>	<u>\$1,187,742</u>	<u>\$1,828,100</u>	<u>\$1,945,300</u>
	Total Salaries and Wages	<u>2,033,700</u>	<u>1,187,742</u>	<u>1,828,100</u>	<u>1,945,300</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	5,000	1,130	5,000	5,000
6911	No. 2 Fuel Oil/Diesel	250,000	25,037	55,000	100,000
6921	Electricity	1,100,000	701,017	1,200,000	1,200,000
6931	Natural Gas	400,000	162,710	280,000	350,000
7091	Miscellaneous Operating Supplies and Materials	25,000	48,886	75,000	50,000
7420	Equipment Repairs and Maintenance	15,000	5,497	10,000	10,000
7821	Caustic Soda	40,000	28,560	45,000	45,000
7854	Incinerator Sand	<u>55,000</u>	<u>0</u>	<u>55,000</u>	<u>55,000</u>
	Total Other Expenditures	<u>1,890,000</u>	<u>972,837</u>	<u>1,725,000</u>	<u>1,815,000</u>
	<b>Total Energy Recovery</b>	<u><u>\$3,923,700</u></u>	<u><u>\$2,160,579</u></u>	<u><u>\$3,553,100</u></u>	<u><u>\$3,760,300</u></u>

## Schedule VI.10 Plant Operations

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>780</b>	<b>SLUDGE DEWATERING</b>				
	<b>Salaries and Wages</b>				
6100	Union Wages-Except Plant Maintenance	<u>\$1,916,300</u>	<u>\$1,264,265</u>	<u>\$1,945,900</u>	<u>\$1,956,900</u>
	Total Salaries and Wages	<u>1,916,300</u>	<u>1,264,265</u>	<u>1,945,900</u>	<u>1,956,900</u>
	<b>Other Expenditures</b>				
6921	Electricity	750,000	450,602	775,000	775,000
6941	Water	200,000	150,327	225,000	268,000
7091	Miscellaneous Operating Supplies and Materials	20,000	9,845	20,000	20,000
7420	Equipment Repairs and Maintenance	5,000	2,545	4,000	5,000
7816	High PH Polymers	950,000	589,578	830,000	780,000
7821	Caustic Soda	42,000	6,877	15,000	15,000
7828	Sodium Hypochlorite	100,000	56,211	90,000	100,000
7845	Hydrochloric Acid	2,400	3,081	3,000	4,000
7856	Miscellaneous Plant Chemicals	<u>1,000</u>	<u>0</u>	<u>0</u>	<u>1,000</u>
	Total Other Expenditures	<u>2,070,400</u>	<u>1,269,066</u>	<u>1,962,000</u>	<u>1,968,000</u>
	<b>Total Sludge Dewatering</b>	<u><u>\$3,986,700</u></u>	<u><u>\$2,533,331</u></u>	<u><u>\$3,907,900</u></u>	<u><u>\$3,924,900</u></u>

## Schedule VI.11 Plant Operations

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>785</b>	<b>LIME STABILIZATION</b>				
	<b>Salaries and Wages</b>				
6100	Union Wages-Except Plant Maintenance	\$180,800	\$111,359	\$171,400	\$179,300
	Total Salaries and Wages	<u>180,800</u>	<u>111,359</u>	<u>171,400</u>	<u>179,300</u>
	<b>Other Expenditures</b>				
6921	Electricity	195,000	118,260	200,000	200,000
6941	Water	10,000	7,060	11,000	13,500
7091	Miscellaneous Operating Supplies and Materials	2,000	476	1,000	2,000
7420	Equipment Repairs and Maintenance	5,000	2,345	5,000	5,000
7836	Lime	525,000	308,974	475,000	500,000
	Total Other Expenditures	<u>737,000</u>	<u>437,115</u>	<u>692,000</u>	<u>720,500</u>
	<b>Total Lime Stabilizaton</b>	<u><u>\$917,800</u></u>	<u><u>\$548,474</u></u>	<u><u>\$863,400</u></u>	<u><u>\$899,800</u></u>

## Schedule VI.12 Plant Operations

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>790</b>	<b>SECONDARY TREATMENT AND POST CHLORINATION</b>				
	<b>Salaries and Wages</b>				
6100	Union Wages-Except Plant Maintenance	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Other Expenditures</b>				
6921	Electricity	1,490,000	901,091	1,550,000	1,550,000
7091	Miscellaneous Operating Supplies and Materials	15,000	6,372	10,000	15,000
7828	Sodium Hypochlorite	475,000	269,172	400,000	425,000
7829	Sodium Bisulfite	130,000	69,601	105,000	111,300
7831	Defoamer	<u>15,000</u>	<u>5,368</u>	<u>10,000</u>	<u>15,000</u>
	Total Other Expenditures	<u>2,125,000</u>	<u>1,251,604</u>	<u>2,075,000</u>	<u>2,116,300</u>
	<b>Total Secondary Treatment and Post Chlorination</b>	<u><u>\$2,125,000</u></u>	<u><u>\$1,251,604</u></u>	<u><u>\$2,075,000</u></u>	<u><u>\$2,116,300</u></u>

## Schedule VI.13 Plant Operations

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>799</b>	<b>GENERAL PLANT TREATMENT</b>				
	<b>Salaries and Wages</b>				
6011	Management Salary	\$1,250,600	\$870,795	\$1,331,800	\$1,270,700
6100	Union Wages-Except Plant Maintenance	312,800	209,524	322,500	324,500
	Total Salaries and Wages	<u>1,563,400</u>	<u>1,080,319</u>	<u>1,654,300</u>	<u>1,595,200</u>
	<b>Other Expenditures</b>				
6425	Training and Seminars	65,000	19,212	65,000	65,000
6725	Other Communications	0	0	0	0
6921	Electricity	400,000	244,635	420,000	420,000
6931	Natural Gas	75,000	45,848	80,000	80,000
6941	Water	1,100,000	695,085	1,200,000	1,344,000
7011	Plant Security	0	1,481	2,000	0
7091	Miscellaneous Operating Supplies and Materials	15,000	12,563	20,000	20,000
7391	Miscellaneous Office Supplies and Materials	10,000	2,111	5,000	10,000
7420	Equipment Repairs and Maintenance	10,000	118	500	10,000
7423	Equipment Rental	10,000	0	5,000	10,000
7432	Freight Charges	85,000	58,187	90,000	85,000
7435	Demurrage Charges	5,000	0	1,000	5,000
7441	Professional Association Fees	1,000	410	1,000	1,000
7511	Gas & Oil-Vehicle & Equipment	1,000	41	100	1,000
7711	EDP Hardware	1,000	0	0	1,000
	Total Other Expenditures	<u>1,778,000</u>	<u>1,079,691</u>	<u>1,889,600</u>	<u>2,052,000</u>
	<b>Total General Plant Treatment</b>	<u><u>\$3,341,400</u></u>	<u><u>\$2,160,010</u></u>	<u><u>\$3,543,900</u></u>	<u><u>\$3,647,200</u></u>

# **Schedule VII**

## **Professional Services**

**Schedule VII  
Professional Services**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>800</b>	<b>PROFESSIONAL SERVICES</b>				
	<b>Salaries and Wages</b>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Other Expenditures</b>				
6611	Audit Fees	90,000	57,954	78,000	90,000
6614	Consulting Engineers	75,000	24,659	70,000	75,000
6617	Legal Expenses	600,000	377,398	600,000	650,000
6620	Trustee Fees	85,000	0	75,000	85,000
6623	Financial Advisory Fees	<u>30,000</u>	<u>14,000</u>	<u>24,000</u>	<u>30,000</u>
	Total Other Expenditures	<u>880,000</u>	<u>474,011</u>	<u>847,000</u>	<u>930,000</u>
	<b>Total Professional Services</b>	<u><u>\$880,000</u></u>	<u><u>\$474,011</u></u>	<u><u>\$847,000</u></u>	<u><u>\$930,000</u></u>

# **Schedule VIII Plant Maintenance**

**Schedule VIII.1  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>110</b>	<b>EXECUTIVE ADMINISTRATION</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	\$52,700	\$23,256	\$35,800	\$39,100
	Total Salaries and Wages	<u>52,700</u>	<u>23,256</u>	<u>35,800</u>	<u>39,100</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	1,500	79	200	1,500
7110	Instrumentation Repair and Maintenance	10,000	6,440	9,500	10,000
7191	Miscellaneous Maintenance Supplies and Expenses	0	0	0	0
	Total Other Expenditures	<u>11,500</u>	<u>6,519</u>	<u>9,700</u>	<u>11,500</u>
	<b>Total Executive Administration</b>	<u>\$64,200</u>	<u>\$29,775</u>	<u>\$45,500</u>	<u>\$50,600</u>

**Schedule VIII.2  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>125</b>	<b>SAFETY</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	<u>\$7,500</u>	<u>\$1,556</u>	<u>\$2,400</u>	<u>\$2,600</u>
	Total Salaries and Wages	<u>7,500</u>	<u>1,556</u>	<u>2,400</u>	<u>2,600</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	1,000	0	0	1,000
7110	Instrumentation Repair and Maintenance	<u>20,000</u>	<u>19,464</u>	<u>26,000</u>	<u>20,000</u>
	Total Other Expenditures	<u>21,000</u>	<u>19,464</u>	<u>26,000</u>	<u>21,000</u>
	<b>Total Executive Administration</b>	<u><u>\$28,500</u></u>	<u><u>\$21,020</u></u>	<u><u>\$28,400</u></u>	<u><u>\$23,600</u></u>

**Schedule VIII.3  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>130</b>	<b>ACCOUNTING/FINANCE</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	0	0	0	0
7191	Miscellaneous Maintenance Supplies and Expenses	0	20	100	0
	Total Other Expenditures	<u>0</u>	<u>20</u>	<u>100</u>	<u>0</u>
	<b>Total Executive Administration</b>	<u>\$0</u>	<u>\$20</u>	<u>\$100</u>	<u>\$0</u>

**Schedule VIII.4  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>140</b>	<b>PURCHASING</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	<u>\$2,400</u>	<u>\$604</u>	<u>\$900</u>	<u>\$1,000</u>
	Total Salaries and Wages	<u>2,400</u>	<u>604</u>	<u>900</u>	<u>1,000</u>
	<b>Other Expenditures</b>				
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Other Expenditures	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Total Purchasing</b>	<u><u>\$2,400</u></u>	<u><u>\$604</u></u>	<u><u>\$900</u></u>	<u><u>\$1,000</u></u>

**Schedule VIII.5  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>200</b>	<b>MANAGEMENT INFORMATION SYSTEMS</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	\$3,800	\$1,478	\$2,300	\$2,500
	Total Salaries and Wages	<u>3,800</u>	<u>1,478</u>	<u>2,300</u>	<u>2,500</u>
	<b>Other Expenditures</b>				
7110	Instrumentation Repair and Maintenance	20,000	11,765	15,000	20,000
	Total Other Expenditures	<u>20,000</u>	<u>11,765</u>	<u>15,000</u>	<u>20,000</u>
	<b>Total Management Information Systems</b>	<u>\$23,800</u>	<u>\$13,243</u>	<u>\$17,300</u>	<u>\$22,500</u>

**Schedule VIII.6  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>300</b>	<b>CUSTOMER SERVICE AND BILLING</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	<u>\$32,800</u>	<u>\$8,569</u>	<u>\$13,200</u>	<u>\$14,500</u>
	Total Salaries and Wages	<u>32,800</u>	<u>8,569</u>	<u>13,200</u>	<u>14,500</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	2,000	1,213	1,500	2,000
7110	Instrumentation Repair and Maintenance	<u>16,000</u>	<u>7,932</u>	<u>16,000</u>	<u>30,000</u>
	Total Other Expenditures	<u>18,000</u>	<u>9,145</u>	<u>17,500</u>	<u>32,000</u>
	<b>Total Billing and Collecting</b>	<u><u>\$50,800</u></u>	<u><u>\$17,714</u></u>	<u><u>\$30,700</u></u>	<u><u>\$46,500</u></u>

**Schedule VIII.7  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>405</b>	<b>ENGINEERING ADMINISTRATION</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	\$600	\$0	\$0	\$0
	Total Salaries and Wages	<u>600</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	0	0	0	0
7110	Instrumentation Repair and Maintenance	0	0	0	0
7191	Miscellaneous Maintenance Supplies and Expenses	0	0	0	0
	Total Other Expenditures	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Total Engineering Administration</b>	<u><u>\$600</u></u>	<u><u>\$0</u></u>	<u><u>\$0</u></u>	<u><u>\$0</u></u>

**Schedule VIII.8  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>510</b>	<b>LABORATORY</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	\$81,700	\$24,131	\$37,100	\$40,600
	Total Salaries and Wages	<u>81,700</u>	<u>24,131</u>	<u>37,100</u>	<u>40,600</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	5,000	1,046	1,500	5,000
7110	Instrumentation Repair and Maintenance	20,000	3,035	10,000	20,000
7191	Miscellaneous Maintenance Supplies and Expenses	0	0	0	0
	Total Other Expenditures	<u>25,000</u>	<u>4,081</u>	<u>11,500</u>	<u>25,000</u>
	<b>Total Laboratory</b>	<u>\$106,700</u>	<u>\$28,212</u>	<u>\$48,600</u>	<u>\$65,600</u>

**Schedule VIII.9  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>520</b>	<b>INDUSTRIAL WASTE</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	\$1,300	\$1,504	\$2,300	\$2,500
	Total Salaries and Wages	<u>1,300</u>	<u>1,504</u>	<u>2,300</u>	<u>2,500</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	1,000	0	0	1,000
7110	Instrumentation Repair and Maintenance	5,000	0	1,000	5,000
7191	Miscellaneous Maintenance Supplies and Expenses	0	453	500	0
	Total Other Expenditures	<u>6,000</u>	<u>453</u>	<u>1,500</u>	<u>6,000</u>
	<b>Total Industrial Waste</b>	<u><u>\$7,300</u></u>	<u><u>\$1,957</u></u>	<u><u>\$3,800</u></u>	<u><u>\$8,500</u></u>

**Schedule VIII.10  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>705</b>	<b>OPERATIONS &amp; MAINTENANCE ADMINISTRATION</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Other Expenditures</b>				
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>761</u>	<u>1,000</u>	<u>0</u>
	Total Other Expenditures	<u>0</u>	<u>761</u>	<u>1,000</u>	<u>0</u>
	<b>Total Operations &amp; Maintenance Administration</b>	<u><u>\$0</u></u>	<u><u>\$761</u></u>	<u><u>\$1,000</u></u>	<u><u>\$0</u></u>

**Schedule VIII.11  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>710</b>	<b>MAIN PUMP STATION</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	<u>\$217,200</u>	<u>\$68,186</u>	<u>\$104,900</u>	<u>\$114,800</u>
	Total Salaries and Wages	<u>217,200</u>	<u>68,186</u>	<u>104,900</u>	<u>114,800</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	150,000	19,468	30,000	150,000
7110	Instrumentation Repair/Maintenance	75,000	113,509	125,000	75,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>445</u>	<u>500</u>	<u>0</u>
	Total Other Expenditures	<u>225,000</u>	<u>133,422</u>	<u>155,500</u>	<u>225,000</u>
	<b>Total Main Pump Station</b>	<u><u>\$442,200</u></u>	<u><u>\$201,608</u></u>	<u><u>\$260,400</u></u>	<u><u>\$339,800</u></u>

**Schedule VIII.12  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>720</b>	<b>RACK AND GRIT</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	\$258,800	\$96,543	\$148,600	\$162,500
	Total Salaries and Wages	<u>258,800</u>	<u>96,543</u>	<u>148,600</u>	<u>162,500</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	120,000	103,347	125,000	120,000
7110	Instrumentation Repair/Maintenance	30,000	20,781	36,000	30,000
7191	Miscellaneous Maintenance Supplies and Expenses	0	375	500	0
	Total Other Expenditures	<u>150,000</u>	<u>124,503</u>	<u>161,500</u>	<u>150,000</u>
	<b>Total Rack and Grit</b>	<u>\$408,800</u>	<u>\$221,046</u>	<u>\$310,100</u>	<u>\$312,500</u>

**Schedule VIII.13  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>730</b>	<b>MOBILE EQUIPMENT FOR TREATMENT</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	<u>\$34,300</u>	<u>\$3,649</u>	<u>\$5,600</u>	<u>\$6,100</u>
	Total Salaries and Wages	<u>34,300</u>	<u>3,649</u>	<u>5,600</u>	<u>6,100</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	60,000	38,386	60,000	60,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>3,217</u>	<u>0</u>	<u>0</u>
	Total Other Expenditures	<u>60,000</u>	<u>41,603</u>	<u>60,000</u>	<u>60,000</u>
	<b>Total Mobile Equipment for Treatment</b>	<u><u>\$94,300</u></u>	<u><u>\$45,252</u></u>	<u><u>\$65,600</u></u>	<u><u>\$66,100</u></u>

**Schedule VIII.14  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>740</b>	<b>PRIMARY SEDIMENTATION</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	\$224,700	\$88,034	\$135,500	\$148,200
	Total Salaries and Wages	<u>224,700</u>	<u>88,034</u>	<u>135,500</u>	<u>148,200</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts & Tools	160,000	79,828	120,000	160,000
7110	Instrumentation Repair/Maintenance	44,600	16,273	40,000	44,600
7191	Miscellaneous Maintenance Supplies & Expenses	0	397	500	0
	Total Other Expenditures	<u>204,600</u>	<u>96,498</u>	<u>160,500</u>	<u>204,600</u>
	<b>Total Primary Sedimentation</b>	<u>\$429,300</u>	<u>\$184,532</u>	<u>\$296,000</u>	<u>\$352,800</u>

**Schedule VIII.15  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>760</b>	<b>BOILERS</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	<u>\$3,200</u>	<u>\$3,763</u>	<u>\$5,800</u>	<u>\$6,300</u>
	Total Salaries and Wages	<u>3,200</u>	<u>3,763</u>	<u>5,800</u>	<u>6,300</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	3,500	0	0	3,500
7110	Instrumentation Repair/Maintenance	<u>500</u>	<u>0</u>	<u>100</u>	<u>500</u>
	Total Other Expenditures	<u>4,000</u>	<u>0</u>	<u>100</u>	<u>4,000</u>
	<b>Total Boilers</b>	<u><u>\$7,200</u></u>	<u><u>\$3,763</u></u>	<u><u>\$5,900</u></u>	<u><u>\$10,300</u></u>

**Schedule VIII.16  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>770</b>	<b>ENERGY RECOVERY</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	\$740,700	\$263,356	\$405,300	\$443,400
	Total Salaries and Wages	<u>740,700</u>	<u>263,356</u>	<u>405,300</u>	<u>443,400</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	400,000	281,778	420,000	400,000
7110	Instrumentation Repair/Maintenance	110,000	142,264	165,000	110,000
7191	Miscellaneous Maintenance Supplies and Expenses	0	707	1,000	0
	Total Other Expenditures	<u>510,000</u>	<u>424,749</u>	<u>586,000</u>	<u>510,000</u>
	<b>Total Energy Recovery</b>	<u>\$1,250,700</u>	<u>\$688,105</u>	<u>\$991,300</u>	<u>\$953,400</u>

**Schedule VIII.17  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>780</b>	<b>SLUDGE DEWATERING</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	\$494,400	\$223,679	\$344,300	\$376,600
	Total Salaries and Wages	<u>494,400</u>	<u>223,679</u>	<u>344,300</u>	<u>376,600</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	400,000	465,544	600,000	400,000
7110	Instrumentation Repair/Maintenance	60,000	32,588	50,000	60,000
7191	Miscellaneous Maintenance Supplies and Expenses	0	1,134	1,500	0
	Total Other Expenditures	<u>460,000</u>	<u>499,266</u>	<u>651,500</u>	<u>460,000</u>
	<b>Total Sludge Dewatering</b>	<u>\$954,400</u>	<u>\$722,945</u>	<u>\$995,800</u>	<u>\$836,600</u>

**Schedule VIII.18  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>785</b>	<b>LIME STABILIZATION DEWATERING</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	\$234,400	\$48,090	\$74,000	\$81,000
	Total Salaries and Wages	<u>234,400</u>	<u>48,090</u>	<u>74,000</u>	<u>81,000</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	30,000	25,377	50,000	60,000
7110	Instrumentation Repair/Maintenance	30,000	9,906	15,000	30,000
7191	Miscellaneous Maintenance Supplies and Expenses	0	464	500	0
	Total Other Expenditures	<u>60,000</u>	<u>35,747</u>	<u>65,500</u>	<u>90,000</u>
	<b>Total Lime Stabilization Dewatering</b>	<u>\$294,400</u>	<u>\$83,837</u>	<u>\$139,500</u>	<u>\$171,000</u>

**Schedule VIII.19  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>790</b>	<b>SECONDARY TREATMENT AND POST CHLORINATION</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	\$480,400	\$191,204	\$294,300	\$321,900
	Total Salaries and Wages	<u>480,400</u>	<u>191,204</u>	<u>294,300</u>	<u>321,900</u>
	<b>Other Expenditures</b>				
7106	Expendable Parts and Tools	200,000	80,710	150,000	200,000
7110	Instrumentation Repair/Maintenance	90,000	62,921	90,000	90,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>401</u>	<u>500</u>	<u>0</u>
	Total Other Expenditures	<u>290,000</u>	<u>144,032</u>	<u>240,500</u>	<u>290,000</u>
	<b>Total Secondary Treatment and Post Chlorination</b>	<u><u>\$770,400</u></u>	<u><u>\$335,236</u></u>	<u><u>\$534,800</u></u>	<u><u>\$611,900</u></u>

**Schedule VIII.20  
Plant Maintenance**

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>799</b>	<b>GENERAL PLANT TREATMENT</b>				
	<b>Salaries and Wages</b>				
6200	Plant Maintenance Labor	<u>\$4,828,300</u>	<u>\$3,362,745</u>	<u>\$5,175,700</u>	<u>\$5,661,900</u>
	Total Salaries and Wages	<u>4,828,300</u>	<u>3,362,745</u>	<u>5,175,700</u>	<u>5,661,900</u>
	<b>Other Expenditures</b>				
6426	Maintenance Training	150,000	153,256	200,000	100,000
7093	Stores Physical Adjustment	0	2,296	0	0
7094	Stores Average Price Adjustment	0	157	0	0
7106	Expendable Parts and Tools	100,000	73,442	110,000	100,000
7110	Instrumentation Repair and Maintenance	100,000	69,698	105,000	100,000
7191	Miscellaneous Maintenance Supplies and Expenses	120,000	82,786	125,000	120,000
7411	Pest Control	5,000	2,985	5,000	5,000
7414	Janitorial	80,000	48,394	80,000	80,000
7417	Grounds Keeping	<u>25,000</u>	<u>6,652</u>	<u>20,000</u>	<u>25,000</u>
	Total Other Expenditures	<u>580,000</u>	<u>439,666</u>	<u>645,000</u>	<u>530,000</u>
	<b>Total General Plant Treatment</b>	<u><u>\$5,408,300</u></u>	<u><u>\$3,802,411</u></u>	<u><u>\$5,820,700</u></u>	<u><u>\$6,191,900</u></u>

# **Schedule IX Employee Benefits**

## Schedule IX Employee Benefits

Acct. No.	Account Description	2020 Budget	2020 Actual to 8/31	2020 Projected	2021 Budget
<b>120</b>	<b>EMPLOYEE BENEFITS</b>				
	<b>Salaries and Wages</b>	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b>Other Expenditures</b>				
6404	Hospitalization-Authority	11,678,300	7,230,111	10,900,200	11,336,300
6405	Hospitalization-Opt Out	54,100	31,333	47,000	68,600
6410	Eye Care Plan	52,000	33,957	51,000	52,000
6413	Dental Plan	342,400	220,350	330,600	358,600
6415	Employee HC Contribution	-300,000	-169,818	-254,700	-341,100
6416	Life Insurance and Weekly Income Projection	833,600	459,602	700,500	858,400
6419	Employee Assistance Program	10,700	8,033	12,100	10,800
6422	Tuition Reimbursement	40,000	4,000	6,000	40,000
6425	Training and Seminars	3,000	694	1,100	3,000
6428	Pension-Union Plan	3,839,000	2,559,294	3,900,000	4,019,800
6431	Pension-Management Plan	2,822,300	1,881,536	2,900,400	2,955,700
6432	Post Employee Benefits (GASB 45)	824,000	549,333	2,845,400	2,930,800
6434	Actuarial Costs-Pension	127,500	74,808	112,300	147,500
6436	Other Benefits Consulting	60,000	64,687	97,000	60,000
6505	FICA-Authority Share	3,248,300	1,790,250	2,700,400	3,254,300
6508	Workers Compensation	900,000	631,079	631,100	750,000
6511	Unemployment Compensation-Self Insured	25,000	1,075	2,000	25,000
6514	Background Investigations	8,000	2,140	3,200	7,000
6517	Physical Examinations	26,200	8,960	13,500	26,500
6520	Uniform Rental	39,300	28,410	42,600	45,000
6523	Miscellaneous Human Resource Services	75,000	45,270	67,900	75,000
	Total Other Expenditures	<u>24,708,700</u>	<u>15,455,104</u>	<u>25,109,600</u>	<u>26,683,200</u>
	<b>Total Employee Benefits</b>	<u>\$24,708,700</u>	<u>\$15,455,104</u>	<u>\$25,109,600</u>	<u>\$26,683,200</u>

# **Appendix A**

## **2019 – 2020 Monthly Loading and Performance Summary**

**ALLEGHENY COUNTY SANITARY AUTHORITY  
ALCOSAN WASTEWATER TREATMENT PLANT  
2019 - 2020 MONTHLY LOADING AND PERFORMANCE SUMMARY**

	INFLUENT						30-DAY AVERAGE							7 DAY MAX. AVERAGE			FINAL EFFLUENT		
	FLOW	FLOW MAX	BOD5 INF.	TSS INF.	INF. LOADING		CBOD5 EFF.	TSS EFF.	NH3-N EFF.	EFF. LOADING			FECAL COL.	CBOD5	TSS	NH3-N	DO	CL2	pH
					BOD5	TSS				CBOD5	TSS	NH3-N							
	MGD	MGD	mg/l	mg/l	LB/D	LB/D	mg/l	mg/l	mg/l	LB/D	LB/D	LB/D	#/100 ml	LB/D	LB/D	LB/D	mg/l	mg/l	S.U.
NPDES PERMIT NO. PA0025984	250	****					20 25	30	15 25.0	41,700 52,125	62,550	31,275 52,125	200 * 2,000	30 62,550 37.5 78,188	45 93825	22.5 46,913 37.5 78,188	MIN 4.0	0.5	MIN 6.0 9.0 MAX
OCTOBER 2019	191.6	250.0	74	117	115,970	185,102	5.7	8.0	1.0	9,105	12,341	1,640	14	7.1 11,160	10.0 17,733	1.5 1,808	7.8	0.34	6.7 7.3
NOVEMBER 2019	199.6	250.0	74	119	122,672	198,558	8.1	9.0	1.3	13,152	15,554	2,091	32	10.2 14,835	12.0 17,287	1.6 2,242	7.4	0.36	6.7 7.1
DECEMBER 2019	217.7	250.0	72	85	130,349	153,158	10.2	9.0	1.3	18,542	16,206	2,357	71	13 21,149	10 18,107	1 2,532	7.2	0.36	6.9 7.2
JANUARY 2020	225.5	250.0	69	80	128,965	146,664	8.1	8.0	1.5	15,207	14,868	2,846	51	15.0 27,737	9.0 17,014	2.0 4,038	7.0	0.37	6.7 7.1
FEBRUARY 2020	227.4	250.0	63	79	120,064	148,283	7.9	9.0	1.6	15,133	17,431	3,046	59	10.0 20,353	11.0 21,429	1.6 4,455	7.4	0.39	6.8 7.1
MARCH 2020	224.4	250.0	49	80	89,289	146,590	7.4	10.0	1.8	13,623	19,054	3,305	42	8.0 15,498	11.0 20,503	3.0 5,238	7.4	0.36	6.9 7.3
APRIL 2020	229.9	250.0	42	79	80,182	149,103	8.6	10.0	1.1	16,398	18,873	2,106	8	10.2 20,084	12.0 22,040	1.2 2,243	7.5	0.32	6.8 7.3
MAY 2020	198.1	250.0	53	100	85,018	159,857	6.6	10.0	1.0	11,007	17,426	1,688	7	7.8 14,950	13.0 25,394	1.2 2,202	7.6	0.39	6.7 7.2
JUNE 2020	162.4	214.4	67	118	90,879	159,719	5.6	8.0	1.1	7,602	10,907	1,450	6	6.5 9,031	9.0 12,164	1.3 1,692	8.2	0.42	6.7 7.0
JULY 2020	164.9	217.9	64	145	86,831	196,606	3.8	8.0	1.0	5,216	10,466	1,375	18	5.3 6,652	9.0 12,246	1.0 1,489	8.2	0.35	6.6 7.0
AUGUST 2020	173.5	250.0	66	103	92,677	146,597	4.0	7.0	1.0	5,854	10,759	1,453	14	4.5 7,155	8.0 10,387	1.0 1,607	7.6	0.40	6.7 7.1
SEPTEMBER 2020	171.2	248.2	75	135	101,207	181,124	5.3	9.0	1.1	7,543	12,782	1,505	7	6.6 9,800	10.0 18,566	1.4 1,848	7.3	0.42	6.8 7.0
ANNUAL AVERAGE	198.9	250.0	64	103	103,675	164,280	7	9	1.2	11,532	14,722	2,072	27	14,867	17,739	2,616	7.0	0.37	7.1

BOD5 - FIVE DAY BIOCHEMICAL OXYGEN DEMAND  
 CBOD5 - FIVE DAY CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND  
 TSS - TOTAL SUSPENDED SOLIDS  
 DO - DISSOLVED OXYGEN  
 FECAL COL. - FECAL COLIFORM \* Permit limit for period of May 1 to October 31  
 NH3-N - AMMONIA-NITROGEN

Shading represents permit exceptions

New NPDES Permit effluent limitations effective January 1, 2019.

# **Appendix B**

## **Proposed Authorized Positions**

**ALCOSAN**  
**SUMMARY OF AUTHORIZED POSITIONS**  
**(as Proposed in 2021 Budget )**

	<b>Management Employees</b>		<b>Union Employees</b>	
	Budgeted	Actual	Budgeted	Actual
<b>Executive Director's Office</b>	5	1	--	--
Contract Administration	7	4	--	--
Public Relations	9	8	2	2
Scholastic Programs	13	6	21	14
Municipal Outreach	7	5	--	--
<b>Finance &amp; Administration</b>				
Director's Office	2	2	--	--
Accounting	3	2	5	4
Customer Service & Billing	4	4	21	20
<b>Human Resources</b>	6	6	--	--
Training & Development	2	2	--	--
Loss Control	7	6	15	13
MIS	3	2	18	17
Purchasing	3	3	8	7
<b>Operations &amp; Maintenance</b>				
Director's Office	3	3	--	--
Operations	12	12	65	62
Mechanical Maintenance	10	8	70	61
Electrical Maintenance	5	5	22	19
<b>Environmental Affairs</b>				
Director's Office	3	3	--	--
Residuals	4	3	1	1
Industrial Waste	3	2	18	16
Laboratory	3	3	15	14
ECM Systems	4	1	--	--
<b>Engineering &amp; Construction</b>				
Director's Office	4	4	3	3
Capital Projects	11	9	4	3
OR/CD Administration	1	0	--	--
<b>Regional Conveyance</b>				
Director's Office	15	10	--	--
Wet Weather Programs	8	6	9	7
Interceptor Systems	10	7	55	35
Interceptor - Outside Municipalities	2	0	5	0
<b>TOTAL</b>	169	127	357	298

**ALCOSAN  
AUTHORIZED POSITIONS**

<b>Cost Center</b>	<b>Department</b>	<b>Position Title</b>	<b>Actual</b>	<b>Budget</b>
<b>110</b>	<b>Executive Director's Office</b>			
	Arletta Williams	Executive Director	1	1
	Vacant	Executive Assistant	0	1
	Vacant	Administrative Specialist	0	1
	Vacant	Administrative Specialist	0	1
	Vacant	Director	0	1
		<b>Total FTES</b>	<b>1</b>	<b>5</b>
<b>430</b>	<b>Contract Administration</b>			
	Suzanne Thomas	Procurement Officer	1	1
	Vacant	Contract Administrator	0	1
	Beth Mellinger	Records and Documents Manager	1	1
	Denise Macellaro	Administrative Secretary	1	1
	Vacant	Contract Administrator	0	1
	Candace Coston	Administrative Specialist II	1	1
	Vacant	Administrative Assistant - Procurement	0	1
		<b>Total FTES</b>	<b>4</b>	<b>7</b>
<b>115</b>	<b>Public Relations</b>			
	Joseph Vallarian	Director of Communications	1	1
	Sheila Holt	Manager of Communications	1	1
	Sean Biagi	Web Administrator/Designer	1	1
	Marye Zoe Young	Administrative Secretary	1	1
	Vacant	Public Relations Specialist	0	1
	Derek Evan	Public Relations Specialist	1	1
	Peggy Croom	Sr. Adm Specialist II	1	1
	Mary Kay Meanor	Admin Specialist II	1	1
	Lisa George	Internal Events	1	1
		<b>Total FTES</b>	<b>8</b>	<b>9</b>
	Graphic Clerk		2	2
		<b>Total FTES</b>	<b>2</b>	<b>2</b>
<b>116</b>	<b>Municipal Outreach</b>			
	Jeanne Clark	Director of Governmental Affairs	1	1
	Stephanie Conley	Administrative Assistant/Government Relations	1	1
	Kimberly Slater Wood	Manager Municipal Relations	1	1
	Jacqueline Graham	Municipal Relations & Outreach Admin Assistant	1	1
	Joseph Day	Municipal Relations Coordinator	1	1
	Vacant	Administrative Support Specialist	0	1
	Vacant	Administrative Specialist	0	1
		<b>Total FTES</b>	<b>5</b>	<b>7</b>
<b>117</b>	<b>Scholastic Programs</b>			
	Vacant	Scholastic Outreach Superintendent	0	1
	Erica LaMar	Manager of Scholastic Programs & Ed Services	1	1
	Vacant	Administrative Supervisor I	0	1
	Vacant	Administrative Supervisor I	0	1
	Tiffany Davis	Scholastic Outreach Supervisor	1	1
	Denee Cabbagestalk	Scholastic Outreach Supervisor	1	1
	Vacant	Administrative Specialist I	0	1
	DeShelle Taylor	Scholastic Support Specialist	1	1
	Vacant	Scholastic Support Specialist	0	1
	Vacant	Scholastic Support Specialist	0	1
	Vacant	Scholastic Outreach Program Administrator	0	1
	Sherry Greb	Scheduling Assistant	1	1
	Roneice Freeman	Scholastic Outreach Coordinator	1	1
		<b>Total FTES</b>	<b>6</b>	<b>13</b>
	Scholastic Outreach Representatives		13	20
	Scholastic Outreach Clerk		1	1
		<b>Total FTES</b>	<b>14</b>	<b>21</b>

**ALCOSAN  
AUTHORIZED POSITIONS**

<b>Cost Center</b>	<b>Department</b>	<b>Position Title</b>	<b>Actual</b>	<b>Budget</b>
130	<b>Finance and Administration</b>			
	William Inks	Director of Finance and Administration	1	1
	Vicki Crowe	Administrative Assistant	1	1
		<b>Total FTES</b>	2	2
	<i>Accounting Department</i>			
	Karen Fantoni	Manager of Accounting	1	1
	Lori McKay	Accounting Supervisor	1	1
	Vacant	Payroll Supervisor	0	1
		<b>Total FTES</b>	2	3
	Chief Accounting Clerk		1	1
	Payroll Clerk		1	2
	Accounts Payable Clerk		2	2
		<b>Total FTES</b>	4	5
300	<b>Customer Service and Billing</b>			
	Daniel Thornton	Manager of CS & B	1	1
	Leslie Sanford	Administrative Supervisor II	1	1
	Dawn Havrilla	Administrative Supervisor II	1	1
	Sharon Synowsky	Administrative Supervisor I	1	1
		<b>Total FTES</b>	4	4
	Secretary to Manager		1	1
	Clerk Receptionist/Switchboard Oper.		1	1
	<u>Billing and Investigations</u>			
	Field Inspector		2	2
	<u>Data Entry</u>			
	Group Leader Data Entry		1	1
	Data Entry Processor		8	8
	<u>Cashiering</u>			
	Group Leader Cashiering		1	1
	Cashier & Controls Clerk		0	1
	<u>Processing</u>			
	Group Leader Processing		1	1
	Account Adjustor		2	2
	Lump Sum Coordinator		1	1
	Systems Control Coordinator		1	1
Customer Service Representative		1	1	
	<b>Total FTES</b>	20	21	
120	<b>Human Resources Department</b>			
	Donna Skundrich	Manager of Human Resources	1	1
	Shelly King	Administrative Specialist (Benefits)	1	1
	Sue Martire	Administrative Assistant	1	1
	Natasha Mitchell	Benefits Support Specialist	1	1
	Hannah Martorelli	Health & Wellness Advisor	1	1
	Raymond Mroch	Compensation Analyst	1	1
		<b>Total FTES</b>	6	6
122	Robert Stimmler	Sr. Training & Development Specialist	1	1
	Matthew Griener	E-Learning Developer	1	1
		<b>Total FTES</b>	2	2

**ALCOSAN  
AUTHORIZED POSITIONS**

<b>Cost Center</b>	<b>Department</b>	<b>Position Title</b>	<b>Actual</b>	<b>Budget</b>	
125	<b>Loss Control</b>				
		Lisa Cortazzo	Manager of Loss Control (Safety)	1	1
		Bernard Spada	Administrative Specialist I Safety	1	1
		Stacy DeMasi	Manager of Security	1	1
		Darryl Adams	Administrative Supervisor I Security	1	1
		Lou Mellinger	Assistant Supervisor Security	1	1
		Vacant	Claims Specialist - Insurance	0	1
		Dylan Thomas	Safety Specialist	1	1
			<b>Total FTES</b>	6	7
			Safety and Training Technician	1	1
			Security Clerk	1	1
			Group Leader Guards	0	1
			Guards	11	12
			<b>Total FTES</b>	13	15
200	<b>MIS Department</b>				
		Jack Tallon	Manager of MIS	1	1
		Robert Hoffman	MIS supervisor	1	1
		Vacant	Cyber Security Specialist	0	1
			<b>Total FTES</b>	2	3
			Secretary	1	1
			Analyst Programmer	9	9
			Computer & Peripheral Operator	2	2
			Microcomputer Specialists	3	4
	Telecommunications Specialist	2	2		
	<b>Total FTES</b>	17	18		
140	<b>Purchasing Department</b>				
		Raymond Meyer	Manager of Purchasing	1	1
		Rita Stone	Administrative Supervisor (Storeroom)	1	1
		Ben Heilman	Administrative Supervisor (Contracts)	1	1
			<b>Total FTES</b>	3	3
			Clerk/Messenger	1	1
			Purchasing Clerk	2	2
			File Clerk/Typist Purchasing	1	1
			Storekeeper	1	1
	Assistant Storekeeper	2	3		
	<b>Total FTES</b>	7	8		
705	<b>Operations and Maintenance</b>				
			<i>Director's Office</i>		
		Douglas Jackson	Director of Operations and Maintenance & Deputy Exec. Director	1	1
		David Brown	Manager of Operations Training	1	1
		Pamela Arthur	Administrative Assistant	1	1
	<b>Total FTES</b>	3	3		
799	<b>Operations Department</b>				
		John Regan	Manager of Operations	1	1
		Peter Guggenheimer	Solid Process Superintendent	1	1
		Shana Marcinik	Liquid Process Superintendent	1	1
		Michael Gavulic	Shift Superintendent	1	1
		Justin Burrell	Shift Superintendent	1	1
		Scott Wolfe	Shift Superintendent	1	1
		Keith Brown	Shift Superintendent	1	1
		Jason Stritmatter	Shift Supervisor	1	1
		James Kindle	Shift Supervisor	1	1
		Robb Merry	Shift Supervisor	1	1
		Megan Green	Shift Supervisor	1	1
		Michael Priore	Operations Training Specialist	1	1
			<b>Total FTES</b>	12	12

**ALCOSAN  
AUTHORIZED POSITIONS**

<b>Cost Center</b>	<b>Department</b>	<b>Position Title</b>	<b>Actual</b>	<b>Budget</b>
	<u>Liquid Process</u>			
	Liquid Proc. Control Rm/Field Operators		20	20
	Liquid Process Utility Operators		3	5
	<u>Dewatering</u>			
	Dewatering Control Rm/Field Operators		12	12
	Dewatering Utility Operators		4	4
	<u>Energy Recovery</u>			
	ERF Control Rm/Field Operators		12	12
	ERF Utility Operators		4	4
	<u>Non-Shift Personnel</u>			
	Operations Clerk		1	1
	Mobile Equipment Operators		2	3
	Dispatchers		2	2
	Operator Tri-axle Truck		2	2
	<b>Total FTES</b>		<b>62</b>	<b>65</b>
<b>799</b>	<b><i>Mechanical Maintenance Department</i></b>			
	John Laird	Manager of Mechanical Maintenance	1	1
	Wayne Dubel	Maintenance Supervisor	1	1
	Anthony Cihal	Expeditor/Planner	1	1
	Eric Jenkins	Maintenance Supervisor	1	1
	Vacant	Maintenance Supervisor	0	1
	Vacant	Maintenance Supervisor	0	1
	Roseann Berg	Maintenance Supervisor	1	1
	Petrosky, William	Maintenance Supervisor I Interceptor Systems	1	1
	Vicky Bonidie	Maintenance Supervisor	1	1
	LaTanya Brown	Maintenance Supervisor	1	1
	<b>Total FTES</b>		<b>8</b>	<b>10</b>
	Auto Mechanics/Apprentices		5	6
	Maintenance Clerk		1	1
	Mechanics/Apprentices		18	25
	Welders/Apprentices		4	4
	Lubrication Mechanics		4	3
	Group Leader Lubrication		1	1
	Building/Construction Group Leader		1	1
	Building/Construction Mechanic/Apprentice		7	8
	General Maintenance Laborers		10	10
	Maintenance Utility		1	1
	Custodians		9	10
	<b>Total FTES</b>		<b>61</b>	<b>70</b>
<b>799</b>	<b><i>Electrical Maintenance Department</i></b>			
	Mark Shaffer	Manager of Electrical Maintenance	1	1
	Bill Martin	Control Systems Superintendent	1	1
	Joshua Florentine	Instrument Repair Supervisor	1	1
	Andrew Devite	Electrical Maintenance Supervisor	1	1
	Dave Rich	HVAC Supervisor	1	1
	<b>Total FTES</b>		<b>5</b>	<b>5</b>
	Electricians/Apprentices		8	10
	Instrument Repair Technicians/Apprentices		7	8
	HVAC Mechanic/Apprentices		4	4
	<b>Total FTES</b>		<b>19</b>	<b>22</b>
<b>505</b>	<b>Environmental Compliance</b>			
	<i>Director's Office</i>			
	Michelle Buys	Director of Environmental Compliance	1	1
	Kimberly Marunczak	Environmental Audit Specialist	1	1
	Melissa Preston	Administrative Assistant	1	1
	<b>Total FTES</b>		<b>3</b>	<b>3</b>

**ALCOSAN  
AUTHORIZED POSITIONS**

<b>Cost Center</b>	<b>Department</b>	<b>Position Title</b>	<b>Actual</b>	<b>Budget</b>	
<b>530</b>	<b>Residuals Department</b>				
	Robert Martire	Residuals Program Manager	1	1	
	Megan Cieslak-Mazza	Residuals Specialist	1	1	
	Vacant	Residuals Specialist	0	1	
	Lorna Shea	Agronomist	1	1	
		<b>Total FTES</b>	<b>3</b>	<b>4</b>	
	Residuals Clerk		1	1	
		<b>Total FTES</b>	<b>1</b>	<b>1</b>	
	<b>520</b>	<b>Industrial Waste Department</b>			
		Tina Dean	Manager of Industrial Waste	1	1
Ronald Stevenson		Sampling & Compliance Supervisor	1	1	
Vacant		Administrative Supervisor - IW	0	1	
		<b>Total FTES</b>	<b>2</b>	<b>3</b>	
Clerk Typist Industrial Waste Sampler/Investigator			2	2	
		<b>Total FTES</b>	<b>14</b>	<b>16</b>	
		<b>Total FTES</b>	<b>16</b>	<b>18</b>	
<b>510</b>		<b>Laboratory Department</b>			
		Betty Kindle	Manager of Laboratory	1	1
	Kimberly Crisi	Laboratory Supervisor	1	1	
	Maureen Dobransky	Quality Control Officer	1	1	
		<b>Total FTES</b>	<b>3</b>	<b>3</b>	
	Laboratory Chemist		10	9	
	Laboratory Technician		2	4	
	Laboratory Clerk		1	1	
	General Maint. Laboratory		1	1	
		<b>Total FTES</b>	<b>14</b>	<b>15</b>	
<b>540</b>	<b>ECM Systems</b>				
	Anne Donahue	ECM Manager	1	1	
	Vacant	Administrative Secretary	0	1	
	Vacant	Administrative Specialist I	0	1	
	Vacant	Administrative Specialist II	0	1	
	<b>Total FTES</b>	<b>1</b>	<b>4</b>		
<b>405</b>	<b>Engineering and Construction</b>				
	<i>Director's Office</i>				
	Kimberly Kennedy	Director of Engineering & Construction	1	1	
	Angel Allen	Administrative Assistant	1	1	
	Jefferson Argyros	Manager Program Management	1	1	
	Steve Miller	Drafting/CADD Supervisor	1	1	
		<b>Total FTES</b>	<b>4</b>	<b>4</b>	
	Contract Clerk		2	2	
	Clerk Typist/Engineering		1	1	
		<b>Total FTES</b>	<b>3</b>	<b>3</b>	
<b>420</b>	<b>Capital Projects</b>				
	Daniel Lockard	Manager of Capital Projects	1	1	
	Vacant	Project Engineer II	0	1	
	Elizabeth Joyce	Project Engineer II	1	1	
	John Findley	Project Engineer III	1	1	
	Raymond Stasny	Construction Supervisor	1	1	
	Jeffrey Mazza	Project Engineer III	1	1	
	Dustin Copenhaver	Civil Engineer I	1	1	
	Shah Haque	Electrical Engineer	1	1	
	Joseph Wagner	Project Engineer II	1	1	
	Cody Edgell	Civil Engineer	1	1	
	Vacant	Engineer	0	1	
		<b>Total FTES</b>	<b>9</b>	<b>11</b>	

**ALCOSAN  
AUTHORIZED POSITIONS**

Cost Center	Department	Position Title	Actual	Budget
	Designers		2	2
	Surveyor		1	1
	Department Clerk		0	1
		<b>Total FTES</b>	<b>3</b>	<b>4</b>
<b>410</b>	<i>OR/CD Administraton</i>			
	Vacant	Administrative Assistant	0	1
		<b>Total FTES</b>	<b>0</b>	<b>1</b>
<b>605</b>	<b>Regional Conveyance</b>			
	<i>Director's Office</i>			
	Jan Oliver	Director of Regional Conveyance	1	1
	Jillian Sanchioli	Administrative Secretary	1	1
	Joseph Sparbanie	Civil Engineer - RC	1	1
	Shawn McWilliams	Civil Engineer	1	1
	Geraldine Walker	GIS Specialist	1	1
	Benjamin Reynolds	GIS Specialist	1	1
	Vacant	GIS Analyst	0	1
	Michael Lichte	Manager of Planning	1	1
	Jeffrey Livezey	Environmental Construction Supervisor	1	1
	Adam Kidane	GIS Asset Management Specialist	1	1
	Uzair (Sam) Shamsi	Hydraulic Hydrologist Analyst	1	1
	Vacant	Manager Regionalization	0	1
	Vacant	Property Acquisition Specialist	0	1
	Vacant	Engineer	0	1
	Vacant	Civil Engineer	0	1
		<b>Total FTES</b>	<b>10</b>	<b>15</b>
<b>440</b>	<b>Wet Weather Programs (CSO)</b>			
	Timothy Prevost	Manager of Wet Weather Programs	1	1
	Vacant	Engineer II	0	1
	Joseph Fedor	Environmental Scientist II	1	1
	Milton Lenhart	Civil Engineer II	1	1
	Brandon Anderson	Supervisor Environmental Monitoring	1	1
	Vacant	Supervisor Environmental Monitoring	0	1
	Dawn Gould	Grants Administrative Assistant	1	1
	Julia Spicher	Civil Engineer	1	1
		<b>Total FTES</b>	<b>6</b>	<b>8</b>
	Clerk Wet Weather Program		1	1
	Environmental Monitoring Technician		6	8
		<b>Total FTES</b>	<b>7</b>	<b>9</b>
<b>690</b>	<b>Interceptor Systems</b>			
	John Garofalo	Manager of Interceptor Systems	1	1
	Dennis Banks	Interceptor Systems Superintendent	1	1
	Mike Altimore	Supervisor I Interceptor Systems	1	1
	Vacant	Supervisor I Interceptor Systems	0	1
	Charles Simone	Supervisor I Interceptor Systems	1	1
	Mark Argenas	Supervisor I Interceptor Systems	1	1
	Lawrence Waibel	Supervisor I Interceptor Systems	1	1
	Vacant	Supervisor I Interceptor Systems	0	1
	Jakubowski, Matthew	Supervisor I Interceptor Systems	1	1
	Vacant	Supervisor I Interceptor Systems Video Crew	0	1
		<b>Total FTES</b>	<b>7</b>	<b>10</b>
	Boat Operator		2	2
	Assistant Boat Operator		1	1
	Crew Leader Interceptor Maint. Pump Station		1	2
	Crew Leader Interceptor Video Inspection		3	3
	Pump Station Driver/Assistant Operator		1	2
	Laborer Operator Maint. Truck Driver		4	5
	Laborer Interceptor Structures		2	6
	Interceptor Systems Inspector/Spotter		3	5
	Regional Conveyance Clerk		1	1
	Hi-Velocity Combo Unit Driver		4	6

**ALCOSAN  
AUTHORIZED POSITIONS**

<b>Cost Center</b>	<b>Department</b>	<b>Position Title</b>	<b>Actual</b>	<b>Budget</b>	
<b>660</b>	Crew Leader Interceptor Maint. Structures		5	5	
	Video Inspection Driver/Assistant		2	3	
	Laborer Interceptor Pump Stations		1	2	
	Laborer Interceptor Video Truck		3	3	
	IS Welder		0	1	
	Building & Construction Mechanic - IS		0	1	
	Laborer (Construction)		0	1	
	Interceptor Systems Helper		2	6	
		<b>Total FTES</b>	35	55	
		<b>Regionalized Facilities</b>			
		Vacant	Supervisor I Interceptor Systems	0	1
		Vacant	Municipal Coordinator	0	1
			<b>Total FTES</b>	0	2
		Crew Leader Interceptor Maint. Structures		0	1
		Laborer Operator Maint. Truck Driver		0	1
		Laborer Interceptor Structures		0	1
		Laborer Interceptor Pump Stations		0	1
		Hi-Velocity Combo Unit Driver		0	1
			<b>Total FTES</b>	0	5
			<b>All FTES</b>	425	526