



Allegheny County Sanitary Authority

Allegheny County, Pennsylvania

Consulting Engineer's 2021 Annual Report Including the Fiscal 2022 Budget

November 2021



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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 2021. Additionally, this report outlines ALCOSAN's Capital Improvements Program and associated year 2022 Budget and includes the proposed year 2022 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 2020 through September 2021, the monthly average daily flow was 186.9 mgd, with a maximum day flow of 250 mgd. Maximum day flows of 250 mgd were recorded in May, June, August and September 2021. The minimum monthly average flow of 154.9 mgd occurred in October 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 2022 consists of the implementation or completion of 39 active projects. These projects plus the \$2,419,500 allocated for low-cost capital improvements total \$1,565,612,600. It is anticipated that approximately \$205,422,700 will be expended on the active capital projects during 2022.
- The proposed year 2022 budget anticipates revenues of \$202,872,700, operating expenses of \$104,144,400, transfer to capital facilities fund for cash funding of green infrastructure and other capital projects of \$13,700,000, and net operating income available for debt service of \$85,028,300. Net income, combined with the January 1, 2021 beginning Revenue Fund balance in excess of the minimum required fund balance, results in a debt service coverage of 4.41.
- In accordance with a Five-Year Rate Resolution (2022-2026) adopted in October 2021, the Authority Board has approved a 7 percent increase in rates effective January 1, 2022. 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 2022.
- 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 2020 to September 2021 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 2020 to September 2021, the monthly average daily flow was 186.9 million gallons per day (mgd), with a maximum day flow of 250 mgd. Maximum day flows of 250 mgd were recorded in May, June, August, and September 2021. The minimum monthly average flow of 154.9 mgd occurred in October 2020. Appendix A provides a summary of all plant loadings and operating performance from October 2020 through September 2021.

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.

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.

A total of 21,250 dry tons of sludge and ash were disposed between October 2020 and September 2021. Of this total, approximately 13,600 dry tons were disposed in landfills and 7,650 dry tons were land applied. During this same period, approximately 19,760 dry tons of

sludge were incinerated in the fluidized bed incinerators, producing approximately 5,310 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 39 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 \$1,565,612,600, which includes \$2,419,500 in low-cost capital improvements.

The 39 active projects, minus the low-cost capital improvements, amount to \$1,563,193,100, with some \$1,411,185,817 remaining to be expended. It is anticipated that \$205,422,700 will be spent on the following active capital projects during 2022.

- 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 12/31/20	2021 Estimated Expenditure	Remaining To Be Expended	2022 Capital Budget
ACTIVE PROJECTS						
S408	Biosolids Strategic Plan	\$1,525,600	\$71,119	\$100,000	\$1,354,481	\$500,000
S423	Plant Energy Efficiency Upgrades	2,319,000	1,150,318	10,000	1,158,682	200,000
S430	Wet Weather Plant Expansion (Program Costs)	49,000,000	11,324,640	3,750,000	33,925,360	5,000,000
S437	Ravine Street Stream Removal & Sewer Separation	5,015,800	347,784	-465,600	5,133,616	2,465,000
S438	Four Mile Run Regulator(M-29) & Outfall Improvements	2,804,000	147,468	30,000	2,626,532	2,626,500
S440	Green Revitalization of Our Waterways Program	1,879,300	1,220,922	76,000	582,378	270,000
S446	Regionalization	79,520,000	24,623,342	1,430,700	53,465,958	4,750,000
S447	Municipal Source Control Evaluation Program	6,399,600	4,971,965	955,000	472,635	472,600
S448	Interim Wet Weather Planning Compliance	22,850,000	9,561,627	1,500,000	11,788,373	1,500,000
S451	Property Acquisitions	41,029,000	2,527,465	3,250,000	35,251,535	9,000,000
S455	Green Infrastructure Program Manager	4,996,800	2,953,703	908,000	1,135,097	945,000
S461	North End Facilities	162,400,000	13,239,203	30,000,000	119,160,797	40,000,000
S462	East Headworks	118,500,000	7,148,967	12,000,000	99,351,033	40,000,000
S463	Solids Thickening and Dewatering Improvements	33,000,000	209	15,000	32,984,791	1,000,000
S464	Environmental Compliance Facility	54,000,000	1,640,274	6,000,000	46,359,726	20,000,000
S466	CSO Bypass and Disinfection	78,600,000	61,862	1,800,000	76,738,138	16,500,000
S467	Primary Sedimentation Tanks E-4 and E-5	48,100,000	0	0	48,100,000	200,000
S468	Plant Electrical Distribution System Upgrades	25,000,000	522,945	600,000	\$23,877,055	10,000,000
S470	Sewer Rehab for Saw Mill Run and Mon Subaqueous Intercep	20,614,500	430,105	2,214,400	17,969,995	13,555,000
S470	Flap Gate & Misc Regulator Improvements, Various Locations	3,122,000	236,113	500,000	2,385,887	1,000,000
S471	Remote Pump Station Improvements	6,076,000	253,166	301,900	5,520,934	4,828,000
S472	Plant and Safety Upgrade (2020 - 2023)	3,150,000	376,175	225,000	2,548,825	1,775,000
S473	Energy Recovery Facility Improvements (2020-2022)	1,200,000	0	0	1,200,000	1,200,000
S474	New Access Shaft: Manholes Near A-40 and M-49 Crossing	4,876,000	5,012	450,000	4,420,988	2,000,000

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

Proj. No.	Description	Current Estimated Cost	Total Expended To 12/31/20	2021 Estimated Expenditure	Remaining To Be Expended	2022 Capital Budget
ACTIVE PROJECTS (Continued)						
S475	Tunnel Program Management	25,481,000	7,000	1,915,400	23,558,600	6,370,800
S477	Water Quality Monitoring Program	2,883,300	1,171	1,100	2,881,029	84,000
S478	Flow Targets	3,880,900	0	2,300	3,878,600	167,000
S480	Spring Garden Grit Chamber	1,129,700	1,442	1,700	1,126,558	92,000
S481	Aeration Tank Diffuser Replacement	5,000,000	17,886	750,000	4,232,114	3,500,000
S482	Mobile Equipment 2022	1,980,000	0	0	1,980,000	1,980,000
S483	Conveyance Rehabilitation and Enhancements (2021-2023)	2,970,000	0	8,500	2,961,500	1,859,500
S484	Delafield Avenue DSI	10,724,600	0	136,000	10,588,600	1,283,000
S485	Ohio River Tunnel (ORT) Final Design	28,950,000	0	400,000	28,550,000	8,000,000
S486	Allegheny River Tunnel (ART) Consolidation Sewer A72-A78	57,275,000	0	0	57,275,000	1,045,300
S487	Effluent Flushing Water System Improvements	6,600,000	0	0	6,600,000	684,000
S488	Ohio River Tunnel (ORT) Construction	446,450,000	0	0	446,450,000	50,000
S489	Wet Weather Pump Station	152,900,000	0	0	152,900,000	20,000
S490	Allegheny River Tunnel (ART) Final Design	34,375,000	0	0	34,375,000	0
S491	Upper Saw Mill and Lower Ohio Interceptor Lining	6,616,000	0	0	6,616,000	500,000
S000	2022 Low Cost Capital Improvements	2,419,500	0	0	2,419,500	2,419,500
	Subtotal	<u>\$1,565,612,600</u>	<u>\$82,841,883</u>	<u>\$68,865,400</u>	<u>\$1,413,905,317</u>	<u>\$207,842,200</u>
2021 COMPLETED PROJECTS						
S456	Program Management Information System (PMIS)	2,606,100	2,106,100	500,000	0	0
S458	Conveyance, Rehabilitation & Enhancements (2018 - 2020)	4,370,261	1,763,788	2,606,473	0	0
S476	Precipitation Monitoring System Replacement and Upgrade	336,800	882	303,400	32,518	32,518
S479	Clay Street Sewer Separation	332,400	45,371	271,300	15,729	15,729
	Subtotal	<u>7,645,561</u>	<u>3,916,141</u>	<u>3,681,173</u>	<u>48,247</u>	<u>48,247</u>
	TOTALS	<u>\$1,573,258,161</u>	<u>\$86,758,024</u>	<u>\$72,546,573</u>	<u>\$1,413,953,564</u>	<u>\$207,890,447</u>

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 21st 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 Updates (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 Plant 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 primary sedimentation tanks, two new final secondary clarifiers, a new RAS pumping station, and a new chlorine contact tank and outfall. It also includes improvements to the plant dewatering process, as following the expansion ALCOSAN will no longer be able co-settle primary sludge and waste activated sludge. 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 wet weather pump station.

A Program Manager was procured in 2016 to advance the expansion of the plant facilities. The PM 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 sequence is intermittently optimized based on decisions made by final designers for the different packages under the program. This also includes coordinating the proposed plant work with the improvements upstream of the plant by the

Tunnel Program Manager under Capital Project No. S475 described hereafter. 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 reviews the various design products. The PM also participates in value engineering for each of the projects. The Program Manager verifies estimates provided by the various design consultants. The PM will use cost control measures to update and maintain budgetary goals. The Program Manager will identify any needed update or expansion of the plant DCS operating system.

In 2017, the Program Manager completed performance modeling and hydraulic modeling to validate the proposed plant expansion. Basis of Design Reports have been completed and were included in the Water Quality Part 2 permit application to PA DEP. In 2021, the PM assembled a Basis of Design Report (BODR) for the Wet Weather Pump Station; this BODR will be finalized in 2022.

In 2018, a Construction Manager was procured to assist in the packaging and review of design products. The CM has been engaged in construction management and inspection duties since construction began in 2020 and will continue to be engaged throughout the duration of the plant expansion. The CM reviews schedules for the individual projects as well as the overall plant expansion schedule to ensure we are on track for consent decree milestones.

Procurement of design firms began in 2018 and will continue in 2022.

- Ravine Street Stream Removal and Sewer Separation (S437)

The 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. Local elected officials are assisting with this very important local project. PennDOT let the contract and opened bids on January 14, 2021. Construction is expected to be complete in Fall 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 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 pipe was found to be in poor and failing condition.

Chester Engineers conducted hydraulic modeling, alternatives analysis, and costing comparisons of five alternatives. As a result of the alternatives analysis, 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 subsequently 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. Municipalities and/or municipal sewer authorities are eligible to participate. Other stakeholders such as local, county and state agencies would be eligible for participation (e.g., school districts) provided they enter into a partnership agreement with the respective ALCOSAN Customer Municipality.

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 consider program goals, community and environmental benefits, municipal financial capability, etc.

Funded projects will be 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 will be conducted and presented in a final report.

The form of funding assistance would agree with ALCOSAN's legal and fiduciary obligations. Matching funds from ALCOSAN 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. Matching funds are not part of this capital project. Funds for this capital project are allocated to engineering design and analysis of municipal source reduction projects.

- Regionalization (S446)

This program involves the voluntary transfer of the largest multi-municipal sewers and associated facilities from member municipalities to ALCOSAN. This program aims to reduce the financial burden on municipalities and allows ALCOSAN to more directly manage and reduce excess flows into the system. As of October 2018, approximately 267 miles of trunk sewers which meet 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. The program is broken into several phases.

- Due diligence investigation. ALCOSAN has been collecting relevant municipal information in an effort to evaluate the location and condition of the sewers for

transfer; determine approximate extents; and build asset management databases. Additional sewers that are multi-municipal that do not meet the original requirements for transfer were also documented. Sewer defects were mapped and documented in Point of Connection (POC) defect reports and distributed to the municipalities.

- Transfer of Assets. Negotiation of the terms of transfer between ALCOSAN and member municipalities are documented in the Transfer Agreements. Municipalities must complete the required repairs, authorize the transfer of assets, and submit a completed Transfer Agreement with all schedules and exhibits to ALCOSAN for execution. A new DEP Water Quality Management permit will be obtained by ALCOSAN as part of the transfer.
- Long-term ownership. ALCOSAN will be responsible for operation and maintenance of the transferred assets as well as maintain a responsibility for many of the municipal overflows. ALCOSAN and the member municipalities will continue to work together on capacity and other concerns of shared interests.

ALCOSAN will continue meeting with municipal officials and engineers in 2022 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.

Over the next several years, ALCOSAN and its consultants will be performing 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; and
- Such other services as may be required by ALCOSAN.
- Green Infrastructure Program Manager (S455)

To achieve the objectives described 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 has incorporated the option to extend the Service Authorization for one year and will extend for one additional year.

- North End Facilities (S461)

New Outfall, Disinfection Facility, and Secondary Clarifiers - 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 demolition of the existing hypochlorite facility, a new river wall, construction of a new chlorine contact tank and outfall, as well as a chemical building to house sodium hypochlorite storage tanks to disinfect the plant flows and sodium bisulfite storage tanks to remove excess chlorine prior to discharge to the Ohio River. 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.

Construction contracts were awarded for the North End Plant Expansion in 2020. Work in 2021 focus on construction of the river wall, excavation of the site, and relocation of utilities and demolition of structures to clear the way for future construction under this contract. Work in 2022 will focus on the CSO O26 relocation, new Chlorine Contact Tank, East

Mixed Liquor Channel extension, and Secondary Effluent Conduit extension. Construction will continue through 2025.

Contracts to upgrade the existing RAS pump stations with larger pumps and replacing the RAS piping with larger pipe were awarded in 2020. This will allow for increased flow from the existing and new Secondary clarifiers; this is required to increase our “return” flows to keep up with the increased “forward” flows the plant will see following the plant expansion. Flow control valves will be added to better split the RAS flows to the various aeration tanks. Construction will last through 2022.

There will be three time periods over the next several years where there will be brief secondary shutdowns at the plant for tasks included in the scope of the North End Plant Expansion. During these periods, there will need to be a way to provide disinfection to the primary effluent channel so flows can be disinfected prior to discharging to the Ohio River. A contract to provide temporary disinfection to the primary effluent channel was awarded in 2021. Construction will be completed in 2022 ahead of the first secondary shutdown under the North End Plant Expansion.

- East Headworks (S462)

The wet weather capacity of the expanded plant will exceed the capacity of the existing Headworks. Six 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 called the East Headworks. There will also be a new grit truck unloading station in the building. New conduits to and from the East 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. In addition, modifications will be made to the main pump station discharge chambers to convey flow to the East Headworks. The existing odor control system will be modified to accommodate the increased air volume. Contracts were awarded in 2021. Construction began in 2021 and will last through 2024.

Additionally, flow meters were installed on the existing pump discharge lines for operational controls and reporting purposes. The flow meter installation was bid separately and will be completed in early 2022.

- Solids Thickening and Dewatering Improvements (S463)

The increased wet weather flow through the primary sedimentation tanks will exceed the recommended DEP guidelines for co-setting of Waste Activated Sludge (WAS) in the tanks. The WAS will have to be pumped directly to the dewatering building and 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. Pilot testing occurred in 2021. Design will begin in 2022.

- 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 (ECF) 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 ECF footprint. Design began in 2020. Garage construction began in 2021 and will be completed in 2022. The Environmental Compliance Facility construction will begin after garage completion and extend through 2023.

- CSO Bypass and Disinfection

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 a new outfall will be constructed 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 from the primary effluent channel to the modified chlorine contact tank. Design is underway and will continue in 2022.

- Primary Sedimentation Tanks E-4 and E-5 (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 Sludge Pump Station will be reconfigured to add a new pump. Because they are reaching the end of their useful life, the existing primary sludge pumps will also be replaced. Design will begin in 2022. Because the existing lab must be demolished for the new primary tanks to be constructed, construction of the new tanks will await the completion of the construction under S464.

- 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. Contracts were awarded in 2021. Construction began in 2021 and will continue 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 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 Lining Contracts were let in 2020 and 2021, respectively. The Lower Saw Mill Run lining will be completed in 2022 and the Monongahela Subaqueous Interceptor lining will be completed in 2023.

- Flap Gate and Miscellaneous Regulator Improvements at Various Locations (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 recently identified flap gates requiring maintenance. Similar to previous contracts, a contractor will be required to dewater, assess 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 pump station. Improvements at Corliss Pump Station include replacement of HVAC equipment, roof internal piping and the installation of a permanent bypass pumping structure. At Ella Street Pump Station, improvements include installation of an emergency high-level sewer bypass, optimizing pump configuration and operation to reduce pump cycling, addition of a new variable frequency drives for storm and sanitary pumps, replacement of two storm pump motors, replacement of the mechanical bar screen system, upgrades to the sewage pumps and replacement of the pump station discharge piping.

- Plant and Safety Upgrade - 2020-2023 (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 2021 includes construction of platforms by ALCOSAN Maintenance staff for access to pumps and motors in main pump station, replacement of air conditioning units in the main pump station electrical room, and replacement of an existing diesel storage tank with a smaller tank to more closely match usage and reduce footprint. The DCS equipment will also be upgraded. This includes a new server and upgrading the existing work stations.

- Energy Recover Facility Improvements – 2020-2022 (S473)

The intent of this program is to address smaller type improvements that are identified to improve the efficient operation of the Energy Recovery Facility and the building itself. Potential projects include installing an isolation device on the afterburner and upgrading or replacing turbine generators and roof repairs.

- 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.

- 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 IWWP. ALCOSAN will be coordinating with regulatory agencies the planned WQ monitoring program in 2021. It is proposed for the WQ monitoring to be performed in five phases, each phase following a key milestone in the implementation of the IWWP.

Pending regulatory approval, the scheduled first phase of this proposed sampling is anticipated to begin during the 2024 recreational period (May through September) and will take dry-weather and wet-weather samples. It is anticipated dry weather sampling and 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 WQ 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. In 2021, state and local regulatory agencies issued Consent Orders to the Customer Municipalities with the objective of implementing source controls throughout the Service Area. This capital program will build upon existing Customer Municipality engagement and continued compliance with ALCOSAN's Consent Decree.

- Spring Garden Direct Stream Inflow Removal (S480)

Spring Garden (A-60) in the City of Pittsburgh was identified as a significant source of sediment and debris due to the presence of natural streams to the municipal sewers. The debris enters the ALCOSAN deep tunnel interceptors and reduces the efficiencies of the tunnel capacity. This capital program, potentially in partnership with the USACE 313 program, provides for the design of a grit chamber along the Spring Garden trunk sewer based upon the characterization of the grit transported through the collection system, municipal coordination, developing biddable documents for construction, and construction of a new grit chamber to retain the grit load during wet weather events to reduce the introduction of grit into the Lower Northern Allegheny Interceptor and, when constructed, the Ohio River Tunnel (ORT).

- 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 droplegs 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 dropleg. 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 began in 2021 and will continue through 2023.

- Mobile Equipment – 2022 (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 – 2021-2023 (S483)

This capital project is to conduct small capital improvements and repairs in the ALCOSAN Regional Conveyance System. The title of this capital project was changed to extend the time from 2022 to 2023. 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 rehabilitation

and roof replacement 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 Township). 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.

- Allegheny River Tunnel (ART) Consolidation Sewer A-72 to A-78 (S486)

This capital project is to perform the design and construction of the ART NSF Package 6 (A-72 through A-78) as an early action item in advance of the ART main tunnel package to complete the work prior to the planned development of the riverfront property in Sharpsburg and Aspinwall boroughs.

- Effluent Flushing Water System Improvements (S487)

Improvements to the existing Effluent Flushing Water (EFW) pumping and piping system are necessary to deliver adequate flow and pressure for the existing process and flushing water uses as well as those that will be added as a part of the Wet Weather Plant Expansion Program. The existing EFW pump station is currently congested in terms of pumps and piping and the design of this project will improve the layout of the EFW pump station to be in line with current Hydraulic Institute design standards to provide a reliable EFW pumping and distribution system. To create the space for the improved layout, the existing pump station structure will be expanded.

- Ohio River Tunnel Construction (S488)

This capital project is to construct the ORT Tunnel to include near surface facilities and to provide Construction Management Services (CM). CM services are anticipated to begin winter 2022-2023 and ORT construction to begin in 2025.

- Wet Weather Pump Station (S489)

Construction of a Wet Weather Pump Station (WWPS) is required to increase plant wet weather capacity to 600 million gallons per day. The WWPS will convey flows from the end of the Ohio River Tunnel to the East Headworks being constructed under the Wet Weather Plant Expansion Program. This project will include excavation, construction of the WWPS shaft and structure, and installation of process equipment including pumps and ancillary items for floatables, grit, and odor control.

- Allegheny River Tunnel (ART) Final Design (S490)

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 ART Tunnel segment as well as near surface facilities. Design will begin in 2025.

- Upper Saw Mill Run and Lower Ohio Interceptor Lining

This capital project includes the design and installation of 6,000 feet of CIPP lining in SMR and an additional 6000 feet in the Lower Ohio Interceptor. This project includes manhole rehabilitation along the lined lengths. The lining will be completed in 2024.

For 2022, it has been estimated that low-cost capital improvements will total \$2,419,500 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 2018, 2019, and 2020 together with the 2021 budget and the actual cash revenues for the eight months ending August 31, 2021. Table 4-1 also shows projected 2021 revenues for the entire twelve months period and the year 2022 budget. As shown on Table 4-1, it is projected that Total Revenues for 2021 will amount to \$191,215,775, which is under budget by approximately \$1,662,525.

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 \$190,835,300 in 2021, approximately \$1,652,000 or 0.9 percent less than the 2021 budget. The 2021 projected results are about 2.3 percent more than the year 2020 actual results. The 2021 projected results are also 6.2 percent greater than the 2019 results, and 12.3 percent above 2018 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,

**Table 4-1
 Summary of Revenues**

Revenue Category	2018 Actual	2019 Actual	2020 Actual	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
Basic and Special Charges	\$169,978,913	\$179,765,640	\$186,508,214	\$192,487,300	\$142,984,241	\$190,835,300	\$202,534,700
Grants	0	0	0	0	0	0	0
Interest Income	3,127,445	8,966,272	2,002,687	145,000	44,821	67,232	67,000
Other	314,177	472,648	291,661	246,000	243,354	313,244	271,000
Total Revenues	\$173,420,535	\$189,204,560	\$188,802,562	\$192,878,300	\$143,272,416	\$191,215,775	\$202,872,700

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 October 2021, the ALCOSAN Board of Directors passed a resolution to adopt new sewer rates and charges. The resolution includes a 7 percent rate increase for 2022 and in each of the following four years.

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 2021 is expected to be approximately \$67,232, \$77,768 less than 2021 budget projections and \$1,935,455 million less than 2020 actual interest income. Other Revenues are expected to be about 27 percent more than budget. In 2021, Other Revenues consisted of septic tank disposal fees, pretreatment fees, closing letter fees, and miscellaneous income.

The year 2022 budget is based on:

- A full year's revenue generated by the 7 percent rate increase that became effective on January 1, 2021 and another 7 percent increase in rates for 2022, effective January 1, 2022. It is anticipated that this percent increase will generate approximately \$11.7 million dollars a year more than the 2021 projected total. However, due to billing cycles, 2022 Basic and Special Charge revenues reflect only six months impact from the January 1, 2022 rate increase. The current user rate of \$9.10 per 1,000 gallons of water used will increase to \$9.73 per 1,000 gallons. The quarterly customer service charge will increase from \$19.11 per quarter to \$20.45. Based on a quarterly usage of 12,000 gallons of water, the average cost per household will be \$137.21 per year, which is a \$2.97 per month increase over 2021 rates.
- No grant funds are anticipated during 2022.
- Interest earnings in 2022 are anticipated to be approximately \$232 less than 2021 projected results.
- Other revenues are expected to be \$42,244 lower in 2022.

The total 2022 revenue budget of \$202,872,700 is approximately \$11.66 million more than 2021 projected results and about \$9.99 million more than the 2021 budget.

5. OPERATING EXPENSES

Table 5-1 is a summary listing of the actual operating expenses for the years 2018, 2019, and 2020, the 2021 budget, and the actual expenses for the eight months ended August 31, 2021, together with the projected full year 2021 operating expenses and the year 2022 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.

As shown on Table 5-1, it is anticipated that projected expenses will come in under budget by approximately \$15,626,900. All departments except Professional Services are expected to come in under budget this year, with departmental savings ranging from 6.0 percent to over 37 percent. Professional Services was over budget by 5.0 percent.

The year 2022 budget has been prepared in conjunction with the ALCOSAN staff and reflects expected activity for the coming year. The 2022 budget anticipates operating expenses of \$104,144,400, a \$960,700 increase over the 2021 budget. The 2022 budget shows an increase of approximately 18.9 percent over 2021 projected results.

The 2022 budget projections are based on the following assumptions:

- An increase in authorized staff of 5 persons. At this time, there are 121 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 2.75 percent increase in salaries and wages.
- Due to the continual increases in rates necessary to comply with the Consent Decree Implementation and Compliance, \$750,000 in funding for the Customer Assistance Program has been included this year.
- An increase of \$1.57 million in the cost of employee benefits, 6.4 percent greater than 2021 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 121 vacancies.
- The 2022 budget provides increased costs for the Federal Consent Decree implementation requirements. It is anticipated that \$ 4 million will be expended on cleaning and inspection and another \$944,600 for regional conveyance. Utility costs are again varied for the coming year. Electricity is expected to decrease by 5.1 percent over 2021 budget while natural gas costs are projected to increase by about 2.4 percent. Water cost is anticipated to decrease by 9.7 percent as compared to the 2021 budget amount.
- Chemical costs are projected to be 11.6 percent higher in 2022 than the budgeted amount for 2021.

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

No.	Expense Category	2018 Actual	2019 Actual	2020 Actual	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
I	Administration & Engineering	\$10,625,520	\$11,843,580	\$10,996,295	\$15,009,600	\$7,656,010	\$11,222,900	\$15,729,600
II	Management Info. Systems	2,579,345	2,685,310	2,993,047	3,378,700	2,077,483	2,939,100	3,562,600
III	Customer Service and Billing	2,586,870	2,695,729	3,557,531	3,861,700	2,107,215	3,049,300	3,824,200
IV	Environmental Compliance	3,710,757	4,337,168	4,192,570	5,117,900	2,653,351	3,900,300	5,405,900
V	Interceptor System	6,607,266	6,607,621	6,466,034	12,818,000	3,734,447	7,966,800	12,227,100
VI	Plant Operations	22,470,837	24,125,184	23,959,037	25,320,000	15,024,485	23,792,800	25,857,700
VII	Professional Services	637,822	720,622	777,645	930,000	584,499	976,800	1,165,000
VIII	Plant Maintenance	9,435,359	9,486,630	9,923,488	10,064,600	5,953,035	9,215,900	10,336,800
IX	Employee Benefits	21,606,713	21,179,273	24,162,417	26,683,200	16,184,246	24,462,900	26,035,500
	Total Expenses	\$80,260,509	\$93,681,117	\$87,018,064	\$103,183,700	\$55,974,771	\$87,556,800	\$104,144,400
	Debt Service				59,293,100		59,293,100	60,916,281
	Total Requirements				\$162,476,800		\$146,849,900	\$165,060,681

Table 5-2: Detailed Summary of Operating Expenses

Expense Category	2021 Actual to 8/31	2021 Projected	2022 Budget
Administration and Engineering			
Executive Administration	\$1,795,184	\$2,402,700	\$3,603,900
Public Relations	1,497,007	2,324,600	2,738,800
Municipal Outreach	429,286	671,900	831,100
Scholastic Outreach	854,541	1,302,900	2,442,900
Human Resources	453,895	665,200	861,900
Training Administration	120,632	205,600	388,600
Accounting/Finance	558,945	810,900	1,158,600
Purchasing	336,354	511,700	580,500
Engineering Administration	353,840	505,500	976,000
OR/CD Administration	1,167	1,200	35,200
Capital Projects	447,138	654,900	670,500
Contract Administration	186,428	272,000	376,800
CSO Program Management	570,934	820,700	889,900
ECM/Environmental Reporting	50,659	73,100	174,900
Total Administration and Engineering	7,656,010	11,222,900	15,729,600
Management Information Systems	2,077,483	2,939,100	3,562,600
Customer Service and Billing	2,107,215	3,049,300	3,824,200
Environmental Compliance			
Environmental Compliance	218,562	334,600	611,600
Laboratory	1,271,067	1,864,600	2,362,900
Industrial Waste	995,079	1,451,400	2,031,000
Diverse Residuals Management	168,643	249,700	400,400
Total Environmental Compliance	2,653,351	3,900,300	5,405,900
Interceptor System			
Regional Conveyance Administration	326,993	517,200	944,600
General-Upper Allegheny System	72,883	107,000	145,400
Verona Pump Station	34,690	53,800	79,300
Squaw Run Pump Station	37,451	56,600	84,400
Montrose Ejector Station	26,613	41,800	64,100
Saw Mill Run	39,366	59,600	78,100
Regionalized Facilities	0	0	1,341,400
General-Except Upper Allegheny	3,000,138	6,846,400	9,077,800
Corliss Pump Station	62,129	97,300	121,700
Malancthon Ejector Station	28,865	44,200	59,600
Ella Street Pump Station	37,974	62,700	88,600
Sandy Creek Pump Station	67,345	110,200	142,100
U5 Ejector Station	0	0	0
Total Interceptor System	3,734,447	7,996,800	12,227,100

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

Expense Category	2021 Actual to 8/31	2021 Projected	2022 Budget
Plant Operations			
Safety	\$937,895	\$1,415,700	\$1,691,800
Operations and Maintenance Administration	246,793	360,300	387,500
Main Pump Station	936,972	1,603,000	1,573,000
Rack and Grit	431,376	688,000	749,000
Mobile Equipment for Treatment	494,458	742,900	1,144,300
Primary Sedimentation	1,948,477	2,850,500	3,023,700
Disposal of Sludge, Ash, and Grit	1,387,604	2,352,500	2,639,600
Boilers	152,454	263,000	265,000
Energy Recovery	2,216,355	3,512,300	3,634,400
Sludge Dewatering	2,390,233	3,759,900	4,328,100
Lime Stabilization	476,362	782,500	851,800
Secondary Treatment and Post Chlorination	1,213,454	2,066,800	2,061,000
General Plant Treatment	2,192,052	3,395,400	3,508,500
Total Plant Operations	<u>15,024,485</u>	<u>23,792,800</u>	<u>25,857,700</u>
Professional Services	<u>584,499</u>	<u>976,800</u>	<u>1,165,000</u>
Plant Maintenance			
Executive Administration	54,038	79,100	93,400
Safety	14,023	24,700	31,900
Accounting/Finance	2,291	3,600	0
Purchasing	134	200	0
Management Information Systems	3,664	16,000	20,000
Customer Service and Billing	30,172	39,500	40,400
Engineering Administration	0	0	0
Laboratory	38,736	61,100	76,100
Industrial Waste	1,568	2,700	6,000
Operations & Maintenance Administration	1,911	2,000	0
Main Pump Station	81,091	466,400	333,300
Rack and Grit	153,874	248,300	256,300
Mobile Equipment for Treatment	42,651	66,500	62,800
Primary Sedimentation	222,322	335,300	359,500
Boilers	15,836	16,600	5,700
Energy Recovery	456,453	777,900	872,900
Sludge Dewatering	333,794	525,500	702,100
Lime Stabilization Dewatering	62,834	96,700	163,900
Secondary Treatment and Post Chlorination	351,220	525,500	673,000
General Plant Treatment	4,086,423	5,928,300	6,639,500
Total Plant Maintenance	<u>5,953,035</u>	<u>9,215,900</u>	<u>10,336,800</u>
Employee Benefits	<u>16,184,246</u>	<u>24,462,900</u>	<u>26,035,500</u>
TOTAL OPERATING EXPENSES	<u>\$55,974,771</u>	<u>\$87,556,800</u>	<u>\$104,144,400</u>

- Land application disposal costs are expected to increase by \$355,000 or 22 percent in 2022 relative to the 2021 budget figure. Costs for disposing of grit and ash have been projected at \$269,600 in 2022. Tipping fees for sludge disposal are expected to increase by 49 percent in the coming year.
- The 2022 budget provides an additional \$13.7 million in funding for self funded capital.

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.

6. DEBT SERVICE COVERAGE CALCULATION

The year 2022 budget revenue expectation less the 2022 budget of operating expenses produces a net income available for debt service as shown by the following calculation.

2022 Projected Revenues	\$202,872,700
2022 Budgeted Operating Expenses	103,644,400
Transfer to Capital Facilities	<u>14,200,000</u>
Net Operating Income	\$ 85,028,300
2022 Debt Service	\$ 60,916,281
Less Capitalized Interest	<u> -</u>
Net 2022 Debt Service	\$ 60,916,281

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 2022. In addition, \$13,700,000 has been allocated for potential cash funding of future capital projects.

The second test requires minimum debt service coverage of 1.10. This requirement will also be met in 2022 as the Net Operating Income plus the January 1, 2021 Revenue Fund balance after deduction of the required fund balance (25 percent of the Operating Expense budget for 2021) provides Debt Service coverage of 4.41. The January 1, 2021 Revenue Fund balance was \$209,431,473, and the minimum balance, which must be maintained in the Revenue Fund is \$25,911,100. This leaves a beginning Revenue Fund balance of \$183,520,373 in excess of the 25 percent required minimum.

Table 6-1: Summary of Authorized Positions (as proposed in 2022 Budget)

	Management Employees		Union Employees	
	Budgeted	Actual	Budgeted	Actual
Executive Director's Office	7	2	--	--
Contract Administration	7	4	--	--
Public Relations	9	7	2	1
Scholastic Programs	13	5	21	10
Municipal Outreach	7	5	--	--
Finance & Administration				
Director's Office	4	3	--	--
Accounting	3	2	5	4
Customer Service & Billing	4	4	21	18
Human Resources	8	5	--	--
Training and Development	3	2	--	--
Loss Control	6	4	15	14
MIS	4	3	18	16
Purchasing	3	3	8	7
Operations & Maintenance				
Director's Office	3	3	--	--
Operations	12	11	65	64
Mechanical Maintenance	10	7	70	59
Electrical Maintenance	5	5	22	18
Environmental Affairs				
Director's Office	4	3	--	--
Residuals	4	3	1	1
Industrial Waste	3	3	18	16
Laboratory	4	3	15	15
ECM Systems	4	1	--	--
Engineering & Construction				
Director's Office	4	3	3	3
Capital Projects	11	6	4	2
OR/CD Administration	1	0	--	--
Regional Conveyance				
Director's Office	15	8	--	--
Wet Weather Programs	8	5	7	6
Interceptor Systems	10	8	46	38
Regionalization Facilities	2	0	12	0
TOTAL	178	118	353	292

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
PROPERTY (Deductible \$100,000)		\$667,530
Building & Personal Property – Limit of Insurance	\$762,052,767	
Equipment Breakdown – Per Limit of Insurance	762,052,767	
Business Income and Extra Expense	10,000,000	
Owned Equipment (Deductible \$1,000)	215,612	
Contractors' Equipment (Deductible \$1,000)	261,996	
Contractors Equipment Leased or Rented (Deductible \$1,000)	400,000	
Earthquake Blanket Limit (Deductible \$100,000)	10,000,000	
Flood Blanket Limit (Deductible \$250,000)	10,000,000	
McGowan Governmental Underwriters American Zurich Insurance Company Policy No. CPO-0632982-01 May 16, 2021 to May 16, 2022		
AUTOMOBILE (Deductible \$1,000)		
Combined Single Limit of Liability	\$1,000,000	Included Above in Property Coverage
Uninsured/Underinsured Motorist	1,000,000	
Medical Expenses	5,000	
Comprehensive Deductible	1,000	
Collusion Deductible	1,000	
Hired Car Physical Damage Comp & Collision Deductibles	1,000	
McGowan Governmental Underwriters American Zurich Insurance Company Policy No. CPO-0632982-01 May 16, 2021 to May 16, 2022		

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

Type	Amount	Estimated Premium
GENERAL LIABILITY Each Occurrence General Aggregate Employee Benefits Liability Each Employee (Deductible \$1,000) Employee Benefits Liability Aggregate (Deductible \$1,000) Sexual Abuse/Molestation McGowan Governmental Underwriters American Zurich Insurance Company Policy No. CPO-0632982-01 May 16, 2021 to May 16, 2022	\$1,000,000 3,000,000 1,000,000 3,000,000 1,000,000	Included Above in the Property Coverage
UMBRELLA LIABILITY (No Retained Limit) Each Occurrence Other Aggregate Products/Completed Operations Aggregate Casualty Business Crisis Aggregate McGowan Governmental Underwriters American Guarantee & Liability Insurance Company Policy No. UMB-0632943-01 May 16, 2021 to May 16, 2022	\$10,000,000 40,000,000 10,000,000 250,000	\$29,930
EXCESS LIABILITY (\$10,000 Retained Limit) Each Occurrence Aggregate Limit McGowan Governmental Underwriters American Alternative Insurance Company (Munch Re) Policy No. 69A2FF0000047-01 May 16, 2021 to May 16, 2022	\$5,000,000 5,000,000	\$35,000
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 03 May 16, 2020 to May 16, 2023	\$5,000,000 5,000,000	\$54,100*

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

Type	Amount	Estimated Premium
CRIME (Deductible \$10,000) Employee Dishonesty (Deductible \$15,000) ERISA Fidelity (No Deductible) On Premises (Deductible \$15,000) In Transit (Deductible \$5,000) Forgery and Alteration (Deductible \$10,000) Computer Fraud (Deductible \$10,000) Funds Transfer Fraud (Deductible \$10,000) False Pretense (Deductible \$10,000) McGowan Governmental Underwriters Insurance Company: Allmerica Financial Benefits Insurance Company Policy No. BDH H219049 01 May 16, 2021 to May 16, 2022	\$2,500,000 1,000,000 25,000 25,000 250,000 1,000,000 1,000,000 25,000	\$5,314
FIDUCIARY LIABILITY – Policy Aggregate (\$10,000 Retention) Voluntary Settlement Program Coverage HIPPA Penalties Sublimit 502(c) Penalties Sublimit 507 Penalties Sublimit PPACA Penalties Sublimit Section 4975 Tax Penalties Sublimit Pension Crisis Management Expenses McGowan Governmental Underwriters Atlantic Specialty Insurance Company Policy No. MML-1887-21 May 16, 2021 to May 16, 2022	\$1,000,000 250,000 100,000 250,000 250,000 250,000 250,000 25,000	\$7,143
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. 10143L210384 May 16, 2021 to May 16, 2022	\$1,000,000 \$1,000,000	\$10,526

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

Type	Amount	Estimated Premium
PROFESSIONAL LIABILITY (Deductible \$25,000) Aggregate Policy Limit	\$9,000,000	\$65,337
SECURITY PROFESSIONAL LIABILITY Each Occurrence Limit Aggregate Limit	1,000,000 3,000,000	
PUBLIC OFFICIALS ERRORS & OMISSIONS Including Employment Practice Liability		Included Above
Each Claim Annual Aggregate Employment Practices & Third Party Discrimination – Each Claim Employment Practices & Third Party Discrimination - Aggregate	1,000,000 3,000,000 1,000,000 3,000,000	
McGowan Governmental Underwriters Zurich American Insurance Company Policy No. EOC-0632983-01 May 16, 2021 to May 16, 2022		
HULL and PROTECTION & 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 & Trailer (\$5,000 Deductible) Hull - Tug/Pushboat (\$20,000 Deductible) P&I on each vessel above	\$4,140,779 1,000,000 105,000 1,999,697 18,667 2,017,415 1,000,000	\$71,524
Joyce Insurance Group Atlantic Specialty Insurance Company Policy No. B5JH04276 May 16, 2021 to May 16, 2022		
GROUP TRAVEL (3-Year Term)* Hartford Life Insurance Company Policy No. 40-ETB-200335 November 9, 2019 to November 9, 2022	\$2,500,000	\$2,700*

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

Type	Amount	Estimated Premium
WORKERS' COMPENSATION Bodily Injury Each Accident Bodily Injury by Disease Policy Limit Bodily Injury by Disease per Employee Seubert & Associates HARIE (Housing and Redevelopment Insurance Exchange) Policy No. HWC 40756161221 May 16, 2021 to May 16, 2022	\$1,000,000 1,000,000 1,000,000	\$604,064
ACTIVE ASSAILANT Each Occurrence Aggregate Limits Legal Liability Physical Damage Business Interruption Loss of Attraction Extra Expense Bodily Injury Response Company Fees Seubert & Associates, Inc. Aspen Syndicate 4711 (Certain Underwriters at Lloyds) Policy No. B0572YR200225 May 16, 2021 to May 16, 2022	\$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	\$15,975

Schedule I

Administration and Engineering

Schedule I.1 Administration and Engineering

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
110	EXECUTIVE ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	\$452,200	\$190,269	\$274,800	\$798,100
6300	Vehicle Maintenance Labor	0	0	0	0
	Total Salaries and Wages	<u>452,200</u>	<u>190,269</u>	<u>274,800</u>	<u>798,100</u>
	Other Expenditures				
1560	Prepaid Insurance	1,150,000	1,029,758	1,029,800	1,200,000
6425	Training and Seminars	15,000	7,362	15,000	10,000
6711	Postage	0	0	0	0
6716	PA One Calls	42,400	3,973	6,000	1,500
6725	Other Communication	1,400	868	1,500	1,500
6811	Travel & Expense	300	190	200	1,000
7304	Computer Paper	0	0	0	0
7307	Copier Paper	0	18	0	0
7310	Advertising	900	563	600	1,000
7313	Publications	100	0	0	200
7316	Board of Directors Expenses	2,000	0	1,500	2,000
7391	Miscellaneous Office Supplies and Materials	4,100	5,774	9,000	6,000
7420	Equipment Repairs and Maintenance	20,300	13,671	20,500	21,100
7423	Equipment Rental	0	0	0	0
7429	Registration Fees/Conferences	0	0	0	0
7438	Printing Charges (Forms, Copies)	0	0	0	0
7441	Professional Association Fees	60,000	41,540	43,000	60,000
7457	Special Projects	1,500,000	500,322	1,000,000	1,500,000
7511	Gas and Oil-Vehicles and Equipment	600	297	500	500
7531	Maintenance/Repair-Vehicle and Equipment	2,300	579	300	1,000
7650	Insurance Clearing	0	0	0	0
7711	EDP Hardware	0	0	0	0
7721	EDP Software	0	0	0	0
7751	Software Support Services	0	0	0	0
	Total Other Expenditures	<u>2,799,400</u>	<u>1,604,915</u>	<u>2,127,900</u>	<u>2,805,800</u>
	Total Executive Administration	<u><u>\$3,251,600</u></u>	<u><u>\$1,795,184</u></u>	<u><u>\$2,402,700</u></u>	<u><u>\$3,603,900</u></u>

**Schedule I.2
Administration and Engineering**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
115	PUBLIC RELATIONS				
	Salaries and Wages				
6011	Management Salary	\$670,700	\$355,075	\$512,900	\$674,200
6100	Union Wages-Except Plant Maintenance	160,400	95,461	138,800	152,500
	Total Salaries and Wages	<u>831,100</u>	<u>450,536</u>	<u>651,700</u>	<u>826,700</u>
	Other Expenditures				
6425	Training and Seminars	5,000	0	1,000	5,000
6725	Other Communication	35,000	11,194	21,000	25,000
6811	Travel and Expense	10,000	0	200	5,000
7307	Copier Paper	300	0	200	300
7310	Advertising	25,000	500	1,500	20,000
7313	Publications	1,500	536	700	1,200
7319	Promotional Materials	100,000	14,138	20,000	80,000
7323	Open House Expenses	200,000	3,203	60,000	175,000
7325	Scholastic Outreach	0	0	0	0
7391	Miscellaneous Office Supplies and Materials	30,000	29,363	45,000	45,000
7423	Equipment Rental	600	0	600	600
7429	Registration Fees/Conferences	10,000	23	800	5,000
7438	Printing Charges (Forms, Copies)	40,000	2,122	7,000	35,000
7441	Professional Association Fees	1,500	395	1,000	1,000
7457	Special Projects	1,500,000	973,087	1,500,000	1,500,000
7511	Gas and Oil-Vehicles and Equipment	1,000	120	600	1,000
7531	Maintenance/Repair-Vehicle and Equipment	1,000	304	800	1,000
7711	EDP Hardware	10,000	11,486	12,000	5,000
7721	EDP Software	3,000	0	500	1,500
7751	Software Supportive Services	0	0	0	5,500
	Total Other Expenditures	<u>1,973,900</u>	<u>1,046,471</u>	<u>1,672,900</u>	<u>1,912,100</u>
	Total Public Relations	<u>\$2,805,000</u>	<u>\$1,497,007</u>	<u>\$2,324,600</u>	<u>\$2,738,800</u>

Schedule I.3 Administration and Engineering

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
116	MUNICIPAL OUTREACH				
	Salaries and Wages				
6011	Management Salary	\$519,500	\$251,762	\$363,700	\$500,300
6100	Union Wages-Except Plant Maintenance	0	0	0	0
	Total Salaries and Wages	<u>519,500</u>	<u>251,762</u>	<u>363,700</u>	<u>500,300</u>
	Other Expenditures				
6425	Training and Seminars	500	350	350	1,500
6725	Other Communication	6,000	2,302	2,400	3,000
6811	Travel and Expense	12,000	6,166	9,800	12,000
7307	Copier Paper	1,000	0	0	0
7313	Publications	500	535	600	700
7319	Promotional Mtaerials	30,000	0	800	1,500
7391	Miscellaneous Office Supplies and Materials	5,000	4,004	6,000	6,000
7423	Equipment Rental	200	110	100	200
7429	Registration Fees/Conferences	42,500	950	3,100	4,000
7438	Printing Charges (Forms, Copies)	5,000	1,217	1,800	2,500
7441	Professional Association Fees	2,000	510	800	1,000
7457	Special Projects	327,500	160,530	279,000	293,000
7511	Gas and Oil-Vehicles and Equipment	1,000	372	600	1,000
7531	Maintenance/Repair-Vehicle and Equipment	2,000	478	700	1,000
7711	EDP Hardware	3,000	0	2,000	3,000
7721	EDP Software	400	0	150	400
7751	Software Support Services	0	0	0	0
	Total Other Expenditures	<u>438,600</u>	<u>177,524</u>	<u>308,200</u>	<u>330,800</u>
	Total Municipal Outreach	<u><u>\$958,100</u></u>	<u><u>\$429,286</u></u>	<u><u>\$671,900</u></u>	<u><u>\$831,100</u></u>

**Schedule I.4
Administration and Engineering**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
117	SCHOLASTIC OUTREACH				
	Salaries and Wages				
6011	Management Salary	\$809,500	\$259,957	\$375,500	\$844,800
6100	Union Wages-Except Plant Maintenance	1,380,300	529,722	770,000	1,384,800
	Total Salaries and Wages	<u>2,189,800</u>	<u>789,679</u>	<u>1,145,500</u>	<u>2,229,600</u>
	Other Expenditures				
6425	Training and Seminars	17,000	0	4,200	17,000
6711	Postage	100	0	0	100
6725	Other Communication	12,500	4,687	8,500	12,000
6811	Travel and Expense	8,000	0	0	8,000
7307	Copier Paper	500	195	400	400
7310	Advertising	1,500	0	1,200	1,500
7313	Publications	500	0	300	300
7319	Promotional Materials	10,000	3,882	6,000	8,000
7323	Open House Expenses	2,500	361	1,100	2,500
7391	Miscellaneous Office Supplies and Materials	10,000	13,453	18,000	15,000
7423	Equipment Rental	5,000	2,615	4,300	5,000
7429	Registration Fees/Conferences	2,000	0	0	2,000
7438	Printing Charges (Forms, Copies)	3,000	275	1,200	3,000
7441	Professional Association Fees	1,500	784	1,000	1,000
7457	Special Projects	106,500	28,354	80,000	106,500
7511	Gas and Oil-Vehicles and Equipment	2,000	2,218	3,000	2,000
7531	Maintenance/Repair-Vehicle and Equipment	5,000	2,930	5,000	6,500
7711	EDP Hardware	15,000	2,737	17,000	15,000
7721	EDP Software	7,000	2,371	6,200	7,500
7751	EDP Support Services	0	0	0	0
	Total Other Expenditures	<u>209,600</u>	<u>64,862</u>	<u>157,400</u>	<u>213,300</u>
	Total Scholastic Outreach	<u><u>\$2,399,400</u></u>	<u><u>\$854,541</u></u>	<u><u>\$1,302,900</u></u>	<u><u>\$2,442,900</u></u>

**Schedule I.5
Administration and Engineering**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
120	HUMAN RESOURCES				
	Salaries and Wages				
6011	Management Salary	\$493,500	\$301,087	\$434,900	\$683,400
6100	Union Wages-Except Plant Maintenance	0	0	0	0
	Total Salaries and Wages	<u>493,500</u>	<u>301,087</u>	<u>434,900</u>	<u>683,400</u>
	Other Expenditures				
6811	Travel and Expense	200	0	0	200
7307	Copier Paper	400	191	300	400
7310	Advertising	5,000	6,162	10,000	10,000
7313	Publications	12,100	0	0	2,500
7391	Miscellaneous Office Supplies and Materials	7,000	10,140	15,300	10,000
7420	Equipment Repairs and Maintenance	400	0	0	300
7423	Equipment Rental	0	0	0	0
7429	Registration Fees/Conferences	5,500	590	900	5,500
7438	Printing Charges (Forms, Copies)	8,500	1,590	2,400	8,500
7441	Professional Association Fees	900	219	400	900
7457	Special Projects	75,000	22,645	34,000	75,000
7711	EDP Hardware	4,600	7,991	12,000	6,000
7721	EDP Software	0	0	0	0
7731	EDP Maintenance Services	0	0	0	0
7751	Software Support Services	56,800	103,280	155,000	59,200
	Total Other Expenditures	<u>176,400</u>	<u>152,808</u>	<u>230,300</u>	<u>178,500</u>
	Total Human Resources	<u><u>\$669,900</u></u>	<u><u>\$453,895</u></u>	<u><u>\$665,200</u></u>	<u><u>\$861,900</u></u>

**Schedule I.6
Administration and Engineering**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
122	TRAINING ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	\$176,700	\$112,286	\$162,200	\$255,300
6100	Union Wages-Except Plant Maintenance	0	0	0	0
	Total Salaries and Wages	<u>176,700</u>	<u>112,286</u>	<u>162,200</u>	<u>255,300</u>
	Other Expenditures				
6425	Training and Seminars	44,000	6,305	20,300	54,000
6711	Postage	100	0	0	100
6725	Other Communication	0	0	0	0
6811	Travel and Expense	0	0	0	0
7391	Miscellaneous Office Supplies and Materials	500	0	0	500
7429	Registration Fees/Conferences	0	702	0	0
7438	Printing Charges (Forms, Copies)	3,500	0	1,700	3,500
7441	Professional Association Fees	0	0	0	0
7457	Special Projects	0	0	0	0
7711	EDP Hardware	0	0	0	0
7721	EDP Software	6,000	960	1,000	5,200
7751	Software Support Services	70,000	379	20,400	70,000
	Total Other Expenditures	<u>124,100</u>	<u>8,346</u>	<u>43,400</u>	<u>133,300</u>
	Total Training Administration	<u>\$300,800</u>	<u>\$120,632</u>	<u>\$205,600</u>	<u>\$388,600</u>

Schedule I.7
Administration and Engineering

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
130	ACCOUNTING/FINANCE				
	Salaries and Wages				
6011	Management Salary	\$576,900	\$316,786	\$457,600	\$613,700
6100	Union Wages-Except Plant Maintenance	369,000	181,879	264,400	327,700
6300	Vehicle Maintenance Labor	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Salaries and Wages	<u>945,900</u>	<u>498,665</u>	<u>722,000</u>	<u>941,400</u>
	Other Expenditures				
6425	Training and Seminars	0	0	0	0
6811	Travel and Expense	8,100	0	0	8,100
7304	Computer Paper	0	0	0	3,000
7304	Copier Paper	600	384	600	600
7310	Advertising	1,000	663	1,200	900
7313	Publications	6,100	269	300	6,100
7391	Miscellaneous Office Supplies and Materials	66,500	35,606	50,000	46,000
7420	Equipment Repairs and Maintenance	5,000	79	500	1,200
7429	Registration Fes/Conferences	4,200	2,535	3,000	4,700
7438	Printing Charges (Forms, Copies)	8,200	743	1,500	8,100
7441	Professional Association Fees	3,000	1,595	2,000	2,900
7457	Special Projects	0	0	0	65,000
7511	Gas and Oil-Vehicle and Equipment	1,800	317	800	1,000
7531	Maintenance/Repair-Vehicle and Equipment	1,400	1,378	1,500	1,300
7711	EDP Hardware	11,000	0	7,500	31,000
7721	EDP Software	800	0	0	800
7751	Software Support Services	<u>26,500</u>	<u>16,711</u>	<u>20,000</u>	<u>36,500</u>
	Total Other Expenditures	<u>144,200</u>	<u>60,280</u>	<u>88,900</u>	<u>217,200</u>
	Total Accounting/Finance	<u><u>\$1,090,100</u></u>	<u><u>\$558,945</u></u>	<u><u>\$810,900</u></u>	<u><u>\$1,158,600</u></u>

**Schedule I.8
Administration and Engineering**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
140	PURCHASING				
	Salaries and Wages				
6011	Management Salary	\$258,700	\$165,589	\$239,200	\$262,000
6100	Union Wages-Except Plant Maintenance	230,900	140,347	204,000	233,700
6300	Vehicle Maintenance Labor	0	0	0	0
	Total Salaries and Wages	<u>489,600</u>	<u>305,936</u>	<u>443,200</u>	<u>495,700</u>
	Other Expenditures				
6425	Training and Seminars	1,000	0	0	0
6711	Postage	50,000	16,360	45,000	50,000
6725	Other Communication	200	0	100	200
6811	Travel and Expense	1,000	0	100	1,000
7404	Cpmputer Paper	0	0	0	0
7307	Copier Paper	500	63	300	400
7310	Advertising	200	0	100	100
7313	Publications	0	0	0	0
7321	MBE/WBE Administration Expense	8,000	2,120	5,000	7,000
7391	Miscellaneous Office Supplies and Materials	12,000	10,540	14,000	14,000
7420	Equipment Repairs and Maintenance	2,000	562	1,500	2,000
7423	Equipment Rental	500	0	0	0
7432	Freight Charges	1,000	0	300	500
7441	Professional Association Fees	500	209	500	500
7511	Gas and Oil-Vehicles and Equipment	600	363	600	600
7531	Maintenance/Repair-Vehicles and Equipment	2,000	201	1,000	2,000
7711	EDP Hardware	6,000	0	0	6,000
7721	EDP Software	1,000	0	0	500
7731	EDP Maintenance Service	0	0	0	0
7751	Software Support Services	0	0	0	0
	Total Other Expenditures	<u>86,500</u>	<u>30,418</u>	<u>68,500</u>	<u>84,800</u>
	Total Purchasing	<u>\$576,100</u>	<u>\$336,354</u>	<u>\$511,700</u>	<u>\$580,500</u>

**Schedule I.9
Administration and Engineering**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
405	ENGINEERING ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	\$201,000	\$202,390	\$292,300	\$204,800
6100	Union Wages-Except Plant Maintenance	189,300	112,263	163,200	186,200
6300	Vehicle Maintenance	2,300	0	0	0
	Total Salaries and Wages	<u>392,600</u>	<u>314,653</u>	<u>455,500</u>	<u>391,000</u>
	Other Expenditures				
6425	Training and Seminars	1,500	289	600	1,500
6725	Other Communication	3,500	1,409	2,400	3,500
6811	Travel and Expense	2,000	0	100	2,000
7307	Copier Paper	500	63	200	500
7310	Advertising	15,000	5,200	8,700	15,000
7313	Publications	100	0	0	100
7391	Miscellaneous Office Supplies and Materials	25,000	17,350	20,400	25,000
7420	Equipment Repairs and Maintenance	5,000	3,745	4,700	5,000
7429	Registration Fees/Conferences	2,000	0	0	2,000
7432	Freight Charges	200	0	0	1,000
7438	Printing Charges (Forms, Copies)	10,000	6,997	8,500	10,000
7441	Professional Association Fees	800	445	600	800
7511	Gas and Oil-Vehicles and Equipment	600	269	400	600
7531	Maintenance/Repair-Vehicles and Equipment	500	0	0	500
7711	EDP Hardware	1,500	0	0	3,500
7721	EDP Software	500	0	0	10,000
7731	EDP Maintenance Services	0	0	0	0
7751	Software Support Services	4,000	3,420	3,400	504,000
	Total Other Expenditures	<u>72,700</u>	<u>39,187</u>	<u>50,000</u>	<u>585,000</u>
	Total Engineering Administration	<u><u>\$465,300</u></u>	<u><u>\$353,840</u></u>	<u><u>\$505,500</u></u>	<u><u>\$976,000</u></u>

**Schedule I.10
Administration and Engineering**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
410	OR/CD ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	\$51,800	\$0	\$0	\$0
6100	Union Wages-Except Plant Maintenance	0	0	0	0
6300	Vehicle Maintenance Labor	0	0	0	0
	Total Salaries and Wages	<u>51,800</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
6425	Training and Seminars	0	0	0	0
6811	Travel and Expense	0	0	0	0
7307	Copier Paper	0	0	0	0
7313	Publications	0	0	0	0
7391	Miscellaneous Office Supplies and Materials	200	0	0	0
7420	Equipment Repairs and Maintenance	0	0	0	0
7429	Registration Fees/Conferences	0	0	0	0
7432	Freight Charges	0	0	0	0
7441	Professional Association Fees	0	0	0	0
7457	Special Projects (Consulting Contractor)	20,000	964	1,000	35,000
7511	Gas and Oil-Vehicles and Equipment	0	0	0	0
7531	Maintenance/Repair-Vehicles and Equipment	0	203	200	200
7711	EDP Hardware	0	0	0	0
7721	EDP Software	0	0	0	0
	Total Other Expenditures	<u>20,200</u>	<u>1,167</u>	<u>1,200</u>	<u>35,200</u>
	Total OR/CD Administration	<u><u>\$72,000</u></u>	<u><u>\$1,167</u></u>	<u><u>\$1,200</u></u>	<u><u>\$35,200</u></u>

**Schedule I.11
Administration and Engineering**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
420	CAPITAL PROJECTS				
	Salaries and Wages				
6011	Management Salary	\$475,100	\$310,811	\$448,900	\$440,500
6100	Union Wages-Except Plant Maintenance	257,800	134,490	195,500	196,500
	Total Salaries and Wages	<u>732,900</u>	<u>445,301</u>	<u>644,400</u>	<u>637,000</u>
	Other Expenditures				
6425	Training and Seminars	4,000	0	200	3,000
6725	Other Communications	1,200	0	1,100	1,700
6811	Travel and Expense	3,200	0	100	2,400
7311	Publications	0	0	0	0
7391	Miscellaneous Office Supplies and Materials	500	0	400	500
7420	Equipment Repairs and Maintenance	500	0	0	500
7429	Registration Fees/Conferences	3,000	0	100	2,400
7432	Freight Charges	0	0	100	200
7438	Printing Charges (Forms, Copies)	100	0	0	0
7441	Professional Association Fees	2,000	100	600	1,800
7511	Gas and Oil-Vehicles and Equipment	600	92	100	600
7531	Maintenance/Repair-Vehicles and Equipment	1,800	1,213	1,800	2,400
7711	EDP Hardware	6,000	432	6,000	18,000
7721	EDP Software	0	0	0	0
	Total Other Expenditures	<u>22,900</u>	<u>1,837</u>	<u>10,500</u>	<u>33,500</u>
	Total Capital Projects	<u><u>\$755,800</u></u>	<u><u>\$447,138</u></u>	<u><u>\$654,900</u></u>	<u><u>\$670,500</u></u>

Schedule I.12
Administration and Engineering

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
430	CONTRACT ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	\$438,400	\$182,328	\$263,400	\$359,800
6100	Union Wages-Except Plant Maintenance	0	0	0	0
6300	Vehicle Maintenance Labor	0	0	0	0
	Total Salaries and Wages	<u>438,400</u>	<u>182,328</u>	<u>263,400</u>	<u>359,800</u>
	Other Expenditures				
6425	Training amd Seminars	4,000	1,222	3,000	4,000
6725	Other Communication	3,500	1,285	2,300	3,000
6811	Travel and Expense	3,000	0	0	0
7307	Copier Paper	600	0	100	0
7310	Advertising	0	0	0	0
7313	Publications	0	0	0	0
7191	Miscellaneous Office Supplies and Materials	5,000	1,593	2,800	5,500
7420	Equipment Repairs and Maintenance	0	0	0	0
7429	Registration Fees/Conferences	1,000	0	0	1,000
7438	Printing Charges (Forms, Copies)	500	0	0	0
7441	Professional Association Fees	500	0	400	500
7444	Outside Laboratory Services	0	0	0	0
7511	Gas & Oil - Vehicles and Equipment	0	0	0	0
7531	Maint./Repair - Vehicles and Equipment	0	0	0	0
7711	EDP Hardware	0	0	0	3,000
7751	Software Support Services	0	0	0	0
	Total Other Expenditures	<u>18,100</u>	<u>4,100</u>	<u>8,600</u>	<u>17,000</u>
	Total Contract Administration	<u><u>\$456,500</u></u>	<u><u>\$186,428</u></u>	<u><u>\$272,000</u></u>	<u><u>\$376,800</u></u>

Schedule I.13
Administration and Engineering

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
440	CSO PROGRAM MANAGEMENT				
	Salaries and Wages				
6011	Management Salary	\$323,800	\$188,159	\$271,800	\$292,000
6100	Union Wages-Except Plant Maintenance	549,700	340,986	495,700	498,500
	Total Salaries and Wages	<u>873,500</u>	<u>529,145</u>	<u>767,500</u>	<u>790,500</u>
	Other Expenditures				
6425	Training and Seminars	3,000	0	600	2,400
6725	Other Communication	6,000	1,661	2,500	4,700
6811	Travel and Expense	4,000	0	0	3,000
7191	Miscellaneous Maint. Supplies and Materials	48,300	25,344	30,000	57,000
7313	Publications	500	0	0	500
7391	Miscellaneous Office Supplies and Materials	3,000	1,614	2,500	3,000
7429	Registration Fees/Conferences	4,100	0	300	2,700
7438	Printing Charges (Forms, Copies)	500	0	0	500
7441	Professional Association Fees	900	0	600	600
7511	Gas and Oil-Vehicles and Equipment	7,000	3,925	6,800	7,000
7531	Maintenance/Repair-Vehicles and Equipment	7,000	4,920	5,500	7,000
7711	EDP Hardware	14,000	4,325	4,400	10,500
7721	EDP Software	500	0	0	500
7731	EDP Maintenance Services	0	0	0	0
	Total Other Expenditures	<u>98,800</u>	<u>41,789</u>	<u>53,200</u>	<u>99,400</u>
	Total CSO Program Management	<u><u>\$972,300</u></u>	<u><u>\$570,934</u></u>	<u><u>\$820,700</u></u>	<u><u>\$889,900</u></u>

**Schedule I.14
Administration and Engineering**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
540	ECM/ENVIRONMENTAL REPORTING				
	Salaries and Wages				
6011	Management Salary	\$215,100	\$49,414	\$71,400	\$157,900
6100	Union Wages-Except Plant Maintenance	0	0	0	0
	Total Salaries and Wages	<u>215,100</u>	<u>49,414</u>	<u>71,400</u>	<u>157,900</u>
	Other Expenditures				
6425	Training and Seminars	4,000	835	1,000	3,000
6725	Other Communication	800	95	100	0
6811	Travel and Expense	5,000	0	0	3,000
7313	Publications	0	0	0	0
7391	Miscellaneous Office Supplies and Materials	1,500	315	500	1,500
7429	Registration Fees/Conferences	3,000	0	100	2,500
7438	Printing Charges (Forms, Copies)	1,000	0	0	1,000
7441	Professional Association Fees	800	0	0	500
7444	Outside Laboratory Services	0	0	0	0
7457	Special Projects	0	0	0	0
7511	Gas and Oil-Vehicles and Equipment	0	0	0	0
7531	Maintenance/Repair-Vehicles and Equipment	0	0	0	0
7711	EDP Hardware	4,000	0	0	4,000
7721	EDP Software	1,500	0	0	1,500
7751	Software Support Services	0	0	0	0
	Total Other Expenditures	<u>21,600</u>	<u>1,245</u>	<u>1,700</u>	<u>17,000</u>
	Total ECM/Environmental Reporting	<u><u>\$236,700</u></u>	<u><u>\$50,659</u></u>	<u><u>\$73,100</u></u>	<u><u>\$174,900</u></u>

Schedule II

Management Information Systems

**Schedule II
Management Information Systems**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
200	MANAGEMENT INFORMATION SYSTEMS				
	Salaries and Wages				
6011	Management Salary	\$365,400	\$168,844	\$243,900	\$438,600
6100	Union Wages-Except Plant Maintenance	1,586,500	947,703	1,377,600	1,629,600
	Total Salaries and Wages	<u>1,951,900</u>	<u>1,116,547</u>	<u>1,621,500</u>	<u>2,068,200</u>
	Other Expenditures				
6425	Training and Seminars	10,000	199	3,200	10,000
6725	Other Communications	161,900	87,560	140,600	169,200
6811	Travel and Expense	200	0	200	500
6921	Electricity	6,300	3,364	6,000	6,300
7307	Copier Paper	1,600	1,260	1,400	1,600
7313	Publications	300	0	0	0
7391	Miscellaneous Office Supplies and Materials	13,000	3,359	7,400	9,000
7420	Equipment Repairs and Maintenance	10,500	185	6,200	5,200
7423	Equipment Rental	200	0	0	0
7429	Registration Fees/Conferences	300	99	300	500
7432	Freight Charges	0	0	0	0
7438	Printing Charges (Forms, Copies)	100	0	0	0
7441	Professional Association Fees	800	0	600	800
7511	Gas and Oil-Vehicles and Equipment	500	0	300	500
7531	Maintenance/Repair-Vehicles and Equipment	400	0	200	400
7711	EDP Hardware	145,000	107,451	141,500	132,000
7721	EDP Software	24,000	2,148	2,700	24,000
7731	EDP Maintenance Service	55,200	7,326	17,600	65,300
7751	Software Supportive Service	996,500	747,985	989,400	1,069,100
	Total Other Expenditures	<u>1,426,800</u>	<u>960,936</u>	<u>1,317,600</u>	<u>1,494,400</u>
	Total Management Information Systems	<u><u>\$3,378,700</u></u>	<u><u>\$2,077,483</u></u>	<u><u>\$2,939,100</u></u>	<u><u>\$3,562,600</u></u>

Schedule III

Customer Service and Billing

Schedule III
Customer Service and Billing

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
300	CUSTOMER SERVICE AND BILLING				
	Salaries and Wages				
6011	Management Salary	\$320,400	\$192,790	\$278,500	\$323,100
6100	Union Wages-Except Plant Maintenance	1,255,600	697,707	1,014,200	1,287,400
		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Salaries and Wages	<u>1,576,000</u>	<u>890,497</u>	<u>1,292,700</u>	<u>1,610,500</u>
	Other Expenditures				
6425	Training and Seminars	2,500	0	500	2,500
6711	Postage	7,000	5,808	6,500	7,000
6725	Other Communication	1,500	575	1,200	1,500
6811	Travel and Expense	100	0	100	100
6921	Electricity	50,000	23,441	45,000	50,000
6931	Natural Gas	15,000	5,179	9,000	15,000
6941	Water	9,000	3,219	7,000	9,000
7307	Copier Paper	3,000	632	2,000	3,000
7313	Publications	1,000	0	200	1,000
7391	Miscellaneous Office Supplies and Materials	15,000	9,029	14,000	15,000
7420	Equipment Repairs and Materials	10,000	295	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	115	500	2,000
7441	Professional Association Fees	600	0	200	600
7462	Service Charge-Billing	215,000	127,727	202,000	215,000
7465	Service Charge-Collection	60,000	29,360	48,000	60,000
7468	Refunds to Municipalities/Bulk	1,012,000	1,009,913	1,009,900	1,040,000
7470	Customer Assistance Program	850,000	0	400,000	750,000
7511	Gas and Oil-Vehicles and Equipment	3,000	123	500	3,000
7531	Maintenance/Repair-Vehicles and Equipment	3,000	152	500	3,000
7711	EDP Hardware	24,000	1,150	6,000	24,000
7721	EDP Software	0	0	0	0
7731	EDP Maintenance Service	0	0	0	0
	Total Other Expenditures	<u>2,285,700</u>	<u>1,216,718</u>	<u>1,756,600</u>	<u>2,213,700</u>
	Total Customer Service and Billing	<u><u>\$3,861,700</u></u>	<u><u>\$2,107,215</u></u>	<u><u>\$3,049,300</u></u>	<u><u>\$3,824,200</u></u>

Schedule IV Environmental Compliance

Schedule IV.1 Environmental Compliance

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
505	ENVIRONMENTAL COMPLIANCE				
	Salaries and Wages				
6011	Management Salary	\$282,100	\$176,470	\$254,900	\$369,800
6300	Vehicle Maintenance Labor	0	0	0	0
	Total Salaries and Wages	<u>282,100</u>	<u>176,470</u>	<u>254,900</u>	<u>369,800</u>
	Other Expenditures				
6425	Training and Seminars	2,500	0	2,500	2,500
6811	Travel and Expense	1,000	0	200	1,000
7313	Publications	1,000	186	500	1,000
7391	Miscellaneous Office Supplies and Materials	5,500	8,003	12,000	12,500
7420	Equipment Repairs and Maintenance	5,500	0	1,000	5,000
7429	Registration Fees/Conferences	1,000	50	200	1,000
7438	Printing Charges (Forms, Copies)	500	0	200	500
7441	Professional Association Fees	1,000	100	500	1,000
7442	Hazardous Materials Disposal	30,000	9,532	25,000	30,000
7457	Special Projects	10,000	0	0	10,000
7471	Permits and Equipment Registration	173,500	23,693	35,000	173,500
7511	Gas and Oil-Vehicles and Equipment	600	294	500	600
7531	Maintenance/Repair-Vehicles and Equipment	1,000	234	1,000	1,000
7711	EDP Hardware	2,000	0	1,000	2,000
7721	EDP Software	0	0	0	0
7751	Software Support Services	200	0	100	200
	Total Other Expenditures	<u>235,300</u>	<u>42,092</u>	<u>79,700</u>	<u>241,800</u>
	Total Environmental Compliance	<u><u>\$517,400</u></u>	<u><u>\$218,562</u></u>	<u><u>\$334,600</u></u>	<u><u>\$611,600</u></u>

Schedule IV.2 Environmental Compliance

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
510	LABORATORY				
	Salaries and Wages				
6011	Management Salary	\$266,700	\$172,237	\$248,800	\$268,400
6100	Union Wages-Except Plant Maintenance	1,323,000	753,785	1,095,700	1,385,300
6300	Vehicle Maintenance La	0	0	0	0
	Total Salaries and Wages	<u>1,589,700</u>	<u>926,022</u>	<u>1,344,500</u>	<u>1,653,700</u>
	Other Expenditures				
6425	Training and Seminars	2,500	0	2,500	7,500
6811	Travel & Expense	0	0	0	0
7251	Pretreatment Supplies and Expenses	0	8	0	0
7291	Miscellaneous Lab Supplies and Glass	200,000	93,104	139,700	200,000
7307	Copier Paper	1,500	257	400	1,000
7313	Publications	0	0	0	0
7391	Miscellaneous Office Supplies and Materials	20,000	15,842	23,800	24,000
7420	Equipment Repairs and Maintenance	50,000	63,566	95,300	105,000
7423	Equipment Rental	0	0	0	0
7429	Registration Fees/Conferences	0	0	0	300
7432	Freight Charges	0	0	0	400
7435	Demurrage Charges	30,000	19,545	29,300	33,000
7438	Printing Charges (Forms, Copies)	0	0	0	0
7441	Professional Association Fees	1,000	300	500	1,000
7444	Outside Laboratory Services	180,000	87,030	130,500	180,000
7511	Gas and Oil-Vehicle and Equipment	500	271	400	500
7531	Maintenance/Repair-Vehicles and Equipment	500	1,506	2,300	500
7711	EDP Hardware	5,000	432	600	5,000
7721	EDP Software	1,000	0	0	1,000
7731	EDP Maintenance Service	0	0	0	0
7751	Software Support Service	0	0	0	0
7900	Laboratory Chemicals	150,000	63,184	94,800	150,000
	Total Other Expenditures	<u>642,000</u>	<u>345,045</u>	<u>520,100</u>	<u>709,200</u>
	Total Laboratory	<u><u>\$2,231,700</u></u>	<u><u>\$1,271,067</u></u>	<u><u>\$1,864,600</u></u>	<u><u>\$2,362,900</u></u>

**Schedule IV.3
Environmental Compliance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
520	INDUSTRIAL WASTE				
	Salaries and Wages				
6011	Management Salary	\$237,500	\$133,736	\$193,200	\$225,600
6100	Union Wages-Except Plant Maintenance	1,366,700	769,670	1,118,800	1,379,700
6300	Vehicle Maintenance Labor	2,300	0	0	0
	Total Salaries and Wages	<u>1,606,500</u>	<u>903,406</u>	<u>1,312,000</u>	<u>1,605,300</u>
	Other Expenditures				
6425	Training and Seminars	6,000	0	0	6,000
6725	Other Communication	8,200	5,160	7,700	8,200
6811	Travel and Expense	6,000	0	0	6,000
7251	Pretreatment Supplies and Expenses	45,000	9,202	15,800	45,000
7255	Pollution Prevention Program Expense	1,000	0	0	1,000
7304	Computer Paper	0	0	0	0
7307	Copier Paper	1,000	191	300	1,000
7391	Miscellaneous Office Supplies and Materials	7,500	795	1,200	7,500
7420	Equipment Repairs and Maintenance	3,100	0	0	3,100
7429	Registration Fees/Conferences	700	0	0	700
7438	Printing Charges (Forms, Copies)	1,000	90	100	1,000
7441	Professional Association Fees	1,200	0	0	1,200
7457	Special Projects	200,000	47,593	71,400	200,000
7511	Gas and Oil-Vehicles and Equipment	15,000	6,028	9,000	15,000
7531	Maintenance/Repair-Vehicles and Equipment	15,000	6,195	9,300	15,000
7711	EDP Hardware	25,000	16,419	24,600	25,000
7721	EDP Software	45,000	0	0	45,000
7751	Software Supportive Service	45,000	0	0	45,000
	Total Other Expenditures	<u>425,700</u>	<u>91,673</u>	<u>139,400</u>	<u>425,700</u>
	Total Industrial Waste	<u><u>\$2,032,200</u></u>	<u><u>\$995,079</u></u>	<u><u>\$1,451,400</u></u>	<u><u>\$2,031,000</u></u>

**Schedule IV.4
Environmental Compliance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
530	DIVERSE RESIDUALS MANAGEMENT				
	Salaries and Wages				
6011	Management Salary	\$200,700	\$134,823	\$194,700	\$263,700
6100	Union Wages-Except Plant Maintenance	51,400	25,030	36,200	50,700
6300	Vehicle Maintenance Labor	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Salaries and Wages	<u>252,100</u>	<u>159,853</u>	<u>230,900</u>	<u>314,400</u>
	Other Expenditures				
6425	Training and Seminars	1,500	0	500	1,500
6811	Travel and Expense	1,500	0	500	1,500
7313	Publications	1,000	0	300	1,000
7391	Miscellaneous Office Supplies and Materials	5,000	2,149	3,500	5,000
7429	Registration Fees/Conferences	1,500	0	500	1,500
7438	Printing Charges (Forms, Copies)	4,000	0	0	3,000
7441	Professional Association Fees	3,000	1,675	3,000	3,000
7444	Outside Laboratory Service	5,000	2,571	5,000	6,000
7457	Special Projects	15,000	559	3,000	15,000
7511	Gas and Oil-Vehicles and Equipment	1,000	0	0	1,000
7531	Maintenance/Repair-Vehicles and Equipment	1,000	1,836	2,500	2,500
7711	EDP Hardware	5,000	0	0	5,000
7721	EDP Software	40,000	0	0	40,000
7751	Software Support Services	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Other Expenditures	<u>84,500</u>	<u>8,790</u>	<u>18,800</u>	<u>86,000</u>
	Total Diverse Residuals Management	<u><u>\$336,600</u></u>	<u><u>\$168,643</u></u>	<u><u>\$249,700</u></u>	<u><u>\$400,400</u></u>

Schedule V Interceptor System

**Schedule V.1
Interceptor System**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
605	REGIONAL CONVEYANCE ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	\$850,200	\$318,294	\$459,800	\$844,600
6200	Outside Maintenance Labor	0	0	0	0
6300	Vehicle Maintenance Labor	0	0	0	0
	Total Salaries and Wages	<u>850,200</u>	<u>318,294</u>	<u>459,800</u>	<u>844,600</u>
	Other Expenditures				
6425	Training and Seminars	7,500	0	0	5,000
6725	Other Communcation	5,000	0	1,000	5,000
6811	Travel and Expense	10,000	0	500	10,000
7313	Publications	600	0	500	600
7391	Miscellaneous Office Supplies and Materials	15,000	3,558	5,000	10,000
7423	Equipment Rental	0	0	0	0
7429	Registration Fees/Conferences	3,000	0	0	3,000
7438	Printing Charges (Forms, Copies)	200	0	100	200
7441	Professional Association Fees	800	755	1,200	1,200
7457	Special Projects	200	0	0	200
7511	Gas and Oil-Vehicles and Equipment	800	126	400	800
7531	Maintenance/Repair-Vehicles & Equipment	1,000	0	500	1,000
7711	EDP Hardware	5,000	0	2,000	5,000
7721	EDP Software	10,000	4,260	4,500	8,000
7731	EDP Maintenance Service	25,000	0	41,700	50,000
	Total Other Expenditures	<u>84,100</u>	<u>8,699</u>	<u>57,400</u>	<u>100,000</u>
	Total Regional Conveyance Administration	<u><u>\$934,300</u></u>	<u><u>\$326,993</u></u>	<u><u>\$517,200</u></u>	<u><u>\$944,600</u></u>

**Schedule V.2
Interceptor System**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
610	GENERAL-UPPER ALLEGHENY SYSTEM				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$70,900	\$72,860	\$105,900	\$141,300
6250	Inside Maintenance Labor	800	0	0	1,600
6300	Vehicle Maintenance Labor	19,700	0	0	0
	Total Salaries and Wages	<u>91,400</u>	<u>72,860</u>	<u>105,900</u>	<u>142,900</u>
	Other Expenditures				
7106	Expendable Parts and Tools	1,500	0	500	1,000
7110	Intrumentation Repair & Maintenance	200	0	0	200
7191	Miscellaneous Maintenance Supplies & Expenses	300	23	100	300
7420	Equipment Repairs and Maintenance	1,000	0	500	1,000
7473	Interceptor Cleaning & Inspection	0	0	0	0
7511	Gas and Oil-Vehicles and Equipment	0	0	0	0
7531	Maintenance/Repair-Vehicles & Equipment	0	0	0	0
	Total Other Expenditures	<u>3,000</u>	<u>23</u>	<u>1,100</u>	<u>2,500</u>
	Total General-Upper Allegheny System	<u>\$94,400</u>	<u>\$72,883</u>	<u>\$107,000</u>	<u>\$145,400</u>

**Schedule V.3
Interceptor System**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
620	VERONA PUMP STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$24,500	\$21,526	\$31,300	\$41,800
6250	Inside Maintenance Labor	300	0	0	500
	Total Salaries and Wages	<u>24,800</u>	<u>21,526</u>	<u>31,300</u>	<u>42,300</u>
	Other Expenditures				
6921	Electricity	14,000	7,646	12,200	13,500
6941	Water	3,500	1,450	2,500	3,000
7106	Expendable Parts and Tools	10,000	1,572	3,000	10,000
7110	Instrumentation Repair/Maintenance	6,000	280	500	6,000
7191	Miscellaneous Maintenance Supplies and Expenses	3,000	2,216	4,000	4,000
7511	Gas and Oil-Vehicles and Equipment	500	0	300	500
	Total Other Expenditures	<u>37,000</u>	<u>13,164</u>	<u>22,500</u>	<u>37,000</u>
	Total Verona Pump Station	<u><u>\$61,800</u></u>	<u><u>\$34,690</u></u>	<u><u>\$53,800</u></u>	<u><u>\$79,300</u></u>

**Schedule V.4
Interceptor System**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
630	SQUAW RUN PUMP STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$24,100	\$21,073	\$30,600	\$40,900
6250	Inside Maintenance Labor	300	0	0	500
	Total Salaries and Wages	<u>24,400</u>	<u>21,073</u>	<u>30,600</u>	<u>41,400</u>
	Other Expenditures				
6921	Electricity	18,000	9,735	14,200	16,000
6941	Water	5,000	3,599	5,400	5,500
7106	Expendable Parts and Tools	10,000	0	1,000	10,000
7110	Instrumentation Repair/Maintenance	7,000	641	1,000	6,000
7191	Miscellaneous Maintenance Supplies and Expenses	5,000	2,403	4,000	5,000
7458	Vacuum/Jet Services	0	0	0	0
7511	Gas and Oil-Vehicles and Equipment	500	0	400	500
	Total Other Expenditures	<u>45,500</u>	<u>16,378</u>	<u>26,000</u>	<u>43,000</u>
	Total Squaw Run Pump Station	<u>\$69,900</u>	<u>\$37,451</u>	<u>\$56,600</u>	<u>\$84,400</u>

**Schedule V.5
Interceptor System**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
640	MONTROSE EJECTOR STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$29,000	\$19,958	\$29,000	\$38,700
6250	Inside Maintenance Labor	400	0	0	500
	Total Salaries and Wages	<u>29,400</u>	<u>19,958</u>	<u>29,000</u>	<u>39,200</u>
	Other Expenditures				
6921	Electricity	7,000	3,998	6,000	7,000
7106	Expendable Parts and Tools	8,000	0	1,000	7,000
7110	Instrumentation Repair/Maintenance	7,000	557	3,000	6,000
7191	Miscellaneous Maintenance Supplies and Expenses	2,000	2,100	2,500	2,500
7420	Equipment Repairs and Maintenance	2,000	0	0	2,000
7511	Gas and Oil-Vehicles and Equipment	300	0	300	400
	Total Other Expenditures	<u>26,300</u>	<u>6,655</u>	<u>12,800</u>	<u>24,900</u>
	Total Montrose Ejector Station	<u><u>\$55,700</u></u>	<u><u>\$26,613</u></u>	<u><u>\$41,800</u></u>	<u><u>\$64,100</u></u>

**Schedule V.6
Interceptor System**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
650	SAW MILL RUN				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$10,300	\$0	\$0	\$0
6250	Inside Maintenance Labor	44,800	34,432	50,100	66,800
6300	Vehicle Maintenance Labor	600	0	0	800
	Total Salaries and Wages	<u>55,700</u>	<u>34,432</u>	<u>50,100</u>	<u>67,600</u>
	Other Expenditures				
7106	Expendable Parts and Tools	2,000	4,934	9,000	10,000
7110	Instrumentation Repair and Maintenance	0	0	0	0
7191	Miscellaneous Maintenance Supplies and Expenses	500	0	500	500
7473	Interceptor Cleaning & Inspection	0	0	0	0
7511	Gas and Oil-Vehicles and Equipment	0	0	0	0
7531	Maintenance/Repair-Vehicles and Equipment	0	0	0	0
	Total Other Expenditures	<u>2,500</u>	<u>4,934</u>	<u>9,500</u>	<u>10,500</u>
	Total Saw Mill Run	<u><u>\$58,200</u></u>	<u><u>\$39,366</u></u>	<u><u>\$59,600</u></u>	<u><u>\$78,100</u></u>

**Schedule V.7
Interceptor System**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
660	REGIONALIZED FACILITIES				
	Salaries and Wages				
6011	Management Salary	\$80,000	\$0	\$0	\$40,000
6100	UnionWages - Except Pit	906,800	0	0	641,400
6200	Outside Maintenance Labor	0	0	0	0
6250	Inside Maintenance Labor	0	0	0	0
6300	Vehicle Maintenance Labor	0	0	0	0
	Total Salaries and Wages	<u>986,800</u>	<u>0</u>	<u>0</u>	<u>681,400</u>
	Other Expenditures				
6425	Training and Seminars	0	0	0	0
6725	Other Communication	0	0	0	0
6921	Electric	0	0	0	0
7106	Expendable Parts and Tools	50,000	0	0	400,000
7110	Instrumentation Repair and Maintenance	10,000	0	0	10,000
7191	Miscellaneous Maintenance Supplies and Expenses	500,000	0	0	250,000
7420	Equipment Repairs and Maintenance	0	0	0	0
7473	Interceptor Cleaning & Inspection	0	0	0	0
7511	Gas and Oil-Vehicles and Equipment	0	0	0	0
7521	Gas and Oil - Watercraft	0	0	0	0
7531	Maintenance/Repair-Vehicles and Equipment	0	0	0	0
7541	Maintenance/Repair-Watercraft	0	0	0	0
7758	Herbicide/Pesticide Control	0	0	0	0
	Total Other Expenditures	<u>560,000</u>	<u>0</u>	<u>0</u>	<u>660,000</u>
	Total Regionalized Facilities	<u><u>\$1,546,800</u></u>	<u><u>\$0</u></u>	<u><u>\$0</u></u>	<u><u>\$1,341,400</u></u>

**Schedule V.8
Interceptor System**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
690	GENERAL-EXCEPT UPPER ALLEGHENY				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$4,116,800	\$2,137,603	\$3,107,200	\$4,145,000
6250	Inside Maintenance Labor	46,100	0	0	44,500
6300	Vehicle Maintenance Labor	50,900	15,589	22,700	56,800
	Total Salaries and Wages	<u>4,213,800</u>	<u>2,153,192</u>	<u>3,129,900</u>	<u>4,246,300</u>
	Other Expenditures				
6425	Training and Seminars	15,000	8,116	10,000	15,000
6716	Pa One Call	0	0	0	400,000
6725	Other Communcation	20,000	13,119	20,000	22,000
6921	Electric	3,000	5,840	9,000	9,000
6931	Natural Gas	0	6,370	10,000	10,000
6941	Water	0	286	500	500
7106	Expendable Parts and Tools	50,000	30,780	48,000	50,000
7110	Instrumentation Repair and Maintenance	6,000	4,889	5,000	6,000
7191	Miscellaneous Maintenance Supplies and Expenses	55,000	36,292	45,000	55,000
7420	Equipment Repairs and Maintenance	25,000	9,285	15,000	25,000
7473	Interceptor Cleaning & Inspection	5,000,000	645,897	3,400,000	4,000,000
7475	Disaster Recovery Services	5,000	0	0	5,000
7511	Gas and Oil-Vehicles and Equipment	50,000	40,757	45,000	60,000
7521	Gas and Oil-Watercraft	20,000	15,652	24,000	34,000
7531	Maintenance/Repair-Vehicles and Equipment	120,000	26,144	80,000	120,000
7541	Maintenance/Repair-Watercraft	20,000	3,519	5,000	20,000
7768	Herbicide/Pesticide Control	0	0	0	0
	Total Other Expenditures	<u>5,389,000</u>	<u>846,946</u>	<u>3,716,500</u>	<u>4,831,500</u>
	Total General-Except Upper Allegheny System	<u><u>\$9,602,800</u></u>	<u><u>\$3,000,138</u></u>	<u><u>\$6,846,400</u></u>	<u><u>\$9,077,800</u></u>

**Schedule V.9
Interceptor System**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
691	CORLISS PUMP STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$30,900	\$29,796	\$43,300	\$57,800
6250	Inside Maintenance Labor	400	0	0	700
	Total Salaries and Wages	<u>31,300</u>	<u>29,796</u>	<u>43,300</u>	<u>58,500</u>
	Other Expenditures				
6921	Electricity	41,000	18,988	30,000	38,000
6941	Water	200	0	0	200
7106	Expendable Parts and Tools	15,000	12,321	20,000	15,000
7110	Instrumentation Repair/Maintenance	5,000	0	0	5,000
7191	Miscellaneous Maintenance Supplies and Expenses	3,000	1,024	2,000	3,000
7420	Equipment Repairs and Maintenance	500	0	2,000	2,000
	Total Other Expenditures	<u>64,700</u>	<u>32,333</u>	<u>54,000</u>	<u>63,200</u>
	Total Corliss Pump Station	<u><u>\$96,000</u></u>	<u><u>\$62,129</u></u>	<u><u>\$97,300</u></u>	<u><u>\$121,700</u></u>

**Schedule V.10
Interceptor System**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
692	MELANCTHON EJECTOR STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$25,700	\$24,261	\$35,300	\$47,100
6250	Inside Maintenance Labor	300	0	0	600
	Total Salaries and Wages	<u>26,000</u>	<u>24,261</u>	<u>35,300</u>	<u>47,700</u>
	Other Expenditures				
6921	Electricity	7,000	3,194	5,500	6,500
6941	Water	400	261	400	400
7106	Expendable Parts and Tools	4,000	210	1,000	3,000
7110	Instrumentation Repair/Maintenance	1,000	430	1,000	1,000
7191	Miscellaneous Maintenance Supplies and Expenses	1,000	509	1,000	1,000
	Total Other Expenditures	<u>13,400</u>	<u>4,604</u>	<u>8,900</u>	<u>11,900</u>
	Total Melancthon Ejector Station	<u><u>\$39,400</u></u>	<u><u>\$28,865</u></u>	<u><u>\$44,200</u></u>	<u><u>\$59,600</u></u>

**Schedule V.11
Interceptor System**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
694	ELLA STREET PUMP STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$50,400	\$21,692	\$31,500	\$42,100
6250	Inside Maintenance Labor	600	0	0	500
	Total Salaries and Wages	<u>51,000</u>	<u>21,692</u>	<u>31,500</u>	<u>42,600</u>
	Other Expenditures				
6921	Electricity	27,000	14,029	26,000	27,000
6931	Natural Gas	5,000	128	200	3,000
6941	Water	400	287	500	400
7106	Expendable Parts and Tools	4,000	0	1,000	3,000
7110	Instrumentation Repair/Maintenance	6,000	382	1,000	6,000
7191	Miscellaneous Maintenance Supplies and Expenses	3,000	1,456	2,000	3,000
7420	Equipment Repairs and Maintenance	4,000	0	0	3,000
7426	Building Rental	0	0	0	0
7511	Gas and Oil-Vehicle and Equipment	500	0	500	600
	Total Other Expenditures	<u>49,900</u>	<u>16,282</u>	<u>31,200</u>	<u>46,000</u>
	Total Ella Street Pump Station	<u>\$100,900</u>	<u>\$37,974</u>	<u>\$62,700</u>	<u>\$88,600</u>

**Schedule V.12
Interceptor System**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
695	SANDY CREEK PUMP STATION				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$49,500	\$23,986	\$34,900	\$46,600
6250	Inside Maintenance Labor	600	0	0	500
	Total Salaries and Wages	<u>50,100</u>	<u>23,986</u>	<u>34,900</u>	<u>47,100</u>
	Other Expenditures				
6921	Electricity	67,000	35,463	53,000	55,000
6931	Natural Gas	4,000	1,135	2,000	3,000
6941	Water	3,000	2,035	3,100	3,000
7106	Expendable Parts and Tools	20,000	0	10,000	20,000
7110	Instrumentation Repair/Maintenance	8,000	2,543	3,000	8,000
7191	Miscellaneous Maintenance Supplies and Expenses	5,000	2,183	3,500	5,000
7511	Gas and Oil-Vehicles and Equipment	700	0	700	1,000
	Total Other Expenditures	<u>107,700</u>	<u>43,359</u>	<u>75,300</u>	<u>95,000</u>
	Total Sandy Creek Pump Station	<u><u>\$157,800</u></u>	<u><u>\$67,345</u></u>	<u><u>\$110,200</u></u>	<u><u>\$142,100</u></u>

**Schedule V.13
Interceptor System**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
697	U5 Ejector Station				
	Salaries and Wages				
6200	Outside Maintenance Labor	\$0	\$0	\$0	\$0
6250	Inside Maintenance Labor	0	0	0	0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
6921	Electricity	0	0	0	0
6941	Water	0	0	0	0
7106	Expendable Parts and Tools	0	0	0	0
7110	Instrumentation Repair/Maintenance	0	0	0	0
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>
	Total U5 Ejector Station	<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	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
125	SAFETY				
	Salaries and Wages				
6011	Management Salary	\$516,700	\$298,061	\$430,500	\$440,300
6100	Union Wages-Except Plant	987,100	548,449	797,200	957,300
	Total Salaries and Wages	<u>1,503,800</u>	<u>846,510</u>	<u>1,227,700</u>	<u>1,397,600</u>
	Other Expenditures				
6425	Training and Seminars	45,000	7,215	25,000	47,000
6517	Physical Examinations	9,000	3,280	9,000	12,000
6811	Travel and Expense	5,000	0	0	5,000
7011	Plant Security	34,000	7,584	14,000	34,000
7313	Publications	21,000	10,686	21,000	21,000
7391	Miscellaneous Office Supplies and Materials	20,000	3,931	11,000	20,000
7420	Equipment Repairs and Maintenance	16,000	9,924	18,000	20,000
7423	Equipment Rental	0	0	0	0
7441	Professional Association Fees	2,000	390	2,000	2,200
7457	Special Projects	10,000	0	0	10,000
7511	Gas & Oil-Vehicle & Equipment	6,000	1,486	4,000	8,000
7531	Maintenance/Repair-Vehicles and Equipment	8,000	1,968	3,000	10,000
7711	EDP Hardware	6,000	0	2,000	6,000
7762	Prescription Safety Glass Program	8,000	4,310	7,000	8,000
7764	Safety Shoe Program	12,000	6,968	12,000	15,000
7766	Industrial Hygiene	5,000	0	2,000	5,000
7768	Herbicide/Pesticide Control	0	0	0	0
7770	Safety Equipment	35,000	14,733	28,000	35,000
7776	Fire Extinguishing Inspection and Recharging	36,000	18,910	30,000	36,000
7778	SCBA Inspection & Recharge				
	Total Other Expenditures	<u>278,000</u>	<u>91,385</u>	<u>188,000</u>	<u>294,200</u>
	Total Safety	<u><u>\$1,781,800</u></u>	<u><u>\$937,895</u></u>	<u><u>\$1,415,700</u></u>	<u><u>\$1,691,800</u></u>

Schedule VI.2 Plant Operations

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
705	OPERATIONS AND MAINTENANCE ADMINISTRATION				
	Salaries and Wages				
6011	Management Salary	\$345,700	\$220,762	\$318,900	\$347,500
6100	Union Wages - Except Plant	0	5,817	8,500	0
6300	Vehicle Maintenance Labor	0	0	0	0
	Total Salaries and Wages	<u>345,700</u>	<u>226,579</u>	<u>327,400</u>	<u>347,500</u>
	Other Expenditures				
6425	Training and Seminars	2,000	75	500	2,000
6725	Other Communications	19,000	9,862	17,000	18,000
6811	Travel and Expense	2,000	584	600	2,000
7313	Publications	0	0	0	0
7391	Miscellaneous Office Supplies and Materials	14,000	8,041	12,000	12,000
7423	Equipment Rental	0	0	0	0
7429	Registration Fees/Conferences	2,000	80	100	2,000
7441	Professional Association Fees	2,000	709	1,000	2,000
7457	Special Projects	0	0	0	0
7511	Gas and Oil-Vehicles and Equipment	1,000	449	700	1,000
7531	Maintenance/Repair-Vehicles and Equipment	1,000	414	1,000	1,000
7711	EDP Hardware	0	0	0	0
7721	EDP Software	0	0	0	0
7731	EDP Maintenance Service	0	0	0	0
	Total Other Expenditures	<u>43,000</u>	<u>20,214</u>	<u>32,900</u>	<u>40,000</u>
	Total Operations and Maintenance Admin.	<u><u>\$388,700</u></u>	<u><u>\$246,793</u></u>	<u><u>\$360,300</u></u>	<u><u>\$387,500</u></u>

Schedule VI.3 Plant Operations

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
710	MAIN PUMP STATION				
	Salaries and Wages				
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>
	Other Expenditures				
6921	Electricity	1,650,000	934,392	1,598,000	1,567,000
7091	Miscellaneous Operating Supplies and Materials	1,000	0	1,000	1,000
7420	Equipment Repairs and Maintenance	4,000	2,580	4,000	5,000
	Total Other Expenditures	<u>1,655,000</u>	<u>936,972</u>	<u>1,603,000</u>	<u>1,573,000</u>
	Total Main Pump Station	<u><u>\$1,655,000</u></u>	<u><u>\$936,972</u></u>	<u><u>\$1,603,000</u></u>	<u><u>\$1,573,000</u></u>

**Schedule VI.4
Plant Operations**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
720	RACK AND GRIT				
	Salaries and Wages				
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>
	Other Expenditures				
6921	Electricity				
6941	Water	310,000	157,431	270,000	286,000
7091	Miscellaneous Operating Supplies and Materials	1,000	5,665	9,000	2,000
7821	Caustic Soda	10,000	4,363	8,000	10,000
7828	Sodium Hypochlorite	472,500	263,917	400,000	450,000
7845	Hydrochloric Acid	1,000	0	1,000	1,000
7856	Miscellaneous Plant Chemicals	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Other Expenditures	<u>794,500</u>	<u>431,376</u>	<u>688,000</u>	<u>749,000</u>
	Total Rack and Grit	<u><u>\$794,500</u></u>	<u><u>\$431,376</u></u>	<u><u>\$688,000</u></u>	<u><u>\$749,000</u></u>

**Schedule VI.5
Plant Operations**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
730	MOBILE EQUIPMENT FOR TREATMENT				
	Salaries and Wages				
6100	Union Wages-Except Plant Maintenance	\$415,100	\$237,196	\$344,800	\$512,700
6300	Vehicle Maintenance Labor	371,700	102,731	149,300	374,400
	Total Salaries and Wages	<u>786,800</u>	<u>339,927</u>	<u>494,100</u>	<u>887,100</u>
	Other Expenditures				
6921	Electricity	42,000	22,787	40,000	42,000
6931	Natural Gas	22,000	12,140	20,800	22,000
6941	Water	2,400	1,734	3,000	3,200
7423	Equipment Rental	0	0	0	0
7511	Gas and Oil-Vehicles and Equipment	40,000	26,228	45,000	50,000
7531	Maintenance/Repairs-Vehicles and Equipment	55,000	37,855	60,000	60,000
7532	Maintenance/Repairs-Hauling Trucks	75,000	53,787	80,000	80,000
7541	Maintenance/Repairs-Watercraft	10,000	0	0	0
	Total Other Expenditures	<u>246,400</u>	<u>154,531</u>	<u>248,800</u>	<u>257,200</u>
	Total Mobile Equipment for Treatment	<u><u>\$1,033,200</u></u>	<u><u>\$494,458</u></u>	<u><u>\$742,900</u></u>	<u><u>\$1,144,300</u></u>

Schedule VI.6 Plant Operations

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
740	PRIMARY SEDIMENTATION				
	Salaries and Wages				
6100	Union Wages-Except Plant Maintenance	<u>\$2,768,300</u>	<u>\$1,880,512</u>	<u>\$2,733,500</u>	<u>\$2,897,700</u>
	Total Salaries and Wages	<u>2,768,300</u>	<u>1,880,512</u>	<u>2,733,500</u>	<u>2,897,700</u>
	Other Expenditures				
6941	Water	71,400	36,835	63,000	67,000
7091	Miscellaneous Operating Supplies and Materials	2,000	2,431	4,000	2,000
7420	Equipment Repairs and Maintenance	0	0	0	0
7456	Grease Disposal	0	0	0	0
7457	Special Projects	0	0	0	0
7458	Vacuum/Jet Services	0	0	0	0
7821	Caustic Soda	10,000	4,027	8,000	10,000
7828	Sodium Hypochlorite	44,100	24,672	40,000	45,000
7845	Hydrochloric Acid	1,000	0	1,000	1,000
7851	Odor Control Supplies and Equipment	0	0	0	0
7856	Miscellaneous Plant Chemicals	<u>1,000</u>	<u>0</u>	<u>1,000</u>	<u>1,000</u>
	Total Other Expenditures	<u>129,500</u>	<u>67,965</u>	<u>117,000</u>	<u>126,000</u>
	Total Primary Sedimentation	<u><u>\$2,897,800</u></u>	<u><u>\$1,948,477</u></u>	<u><u>\$2,850,500</u></u>	<u><u>\$3,023,700</u></u>

**Schedule VI.7
Plant Operations**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
750	DISPOSAL OF SLUDGE, ASH, AND GRIT				
	Salaries and Wages	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
7447	Tipping Fees-Sludge	275,000	244,564	390,000	409,500
7450	Tipping Fees-Ash	265,000	152,887	245,000	257,000
7453	Tipping Fees-Grit	17,000	4,076	12,000	12,600
7455	Tipping Fees-Trash	5,500	2,757	5,500	5,500
7456	Grease Disposal	0	0	0	0
7459	Land Application Disposal	<u>1,600,000</u>	<u>983,320</u>	<u>1,700,000</u>	<u>1,955,000</u>
	Total Other Expenditures	<u>2,162,500</u>	<u>1,387,604</u>	<u>2,352,500</u>	<u>2,639,600</u>
	Total Disposal of Sludge, Ash, and Grit	<u><u>\$2,162,500</u></u>	<u><u>\$1,387,604</u></u>	<u><u>\$2,352,500</u></u>	<u><u>\$2,639,600</u></u>

**Schedule VI.8
Plant Operations**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
760	BOILERS				
	Salaries and Wages				
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>
	Other Expenditures				
6931	Natural Gas	225,000	138,375	230,000	230,000
7091	Miscellaneous Operating Supplies and Materials	25,000	14,079	25,000	25,000
7420	Equipment Repairs and Maintenance	<u>8,000</u>	<u>0</u>	<u>8,000</u>	<u>10,000</u>
	Total Other Expenditures	<u>258,000</u>	<u>152,454</u>	<u>263,000</u>	<u>265,000</u>
	Total Boilers	<u><u>\$258,000</u></u>	<u><u>\$152,454</u></u>	<u><u>\$263,000</u></u>	<u><u>\$265,000</u></u>

Schedule VI.9 Plant Operations

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
770	ENERGY RECOVERY				
	Salaries and Wages				
6011	Management Salary	\$0	\$0	\$0	\$0
6100	Union Wages-Except Plant Maintenance	1,945,300	1,221,912	1,776,200	1,936,100
	Total Salaries and Wages	<u>1,945,300</u>	<u>1,221,912</u>	<u>1,776,200</u>	<u>1,936,100</u>
	Other Expenditures				
6425	Training and Seminars	5,000	80	5,000	5,000
6911	No. 2 Fuel Oil/Diesel	100,000	0	57,000	75,000
6921	Electricity	1,200,000	695,298	1,191,000	1,140,000
6931	Natural Gas	350,000	237,689	400,000	350,000
7091	Miscellaneous Operating Supplies and Materials	50,000	12,081	25,000	40,000
7420	Equipment Repairs and Maintenance	10,000	2,070	8,000	10,000
7458	Vacuum/Jet Services	0	0	0	0
7821	Caustic Soda	45,000	7,805	10,600	15,000
7854	Incinerator Sand	55,000	39,420	39,500	63,300
	Total Other Expenditures	<u>1,815,000</u>	<u>994,443</u>	<u>1,736,100</u>	<u>1,698,300</u>
	Total Energy Recovery	<u><u>\$3,760,300</u></u>	<u><u>\$2,216,355</u></u>	<u><u>\$3,512,300</u></u>	<u><u>\$3,634,400</u></u>

Schedule VI.10 Plant Operations

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
780	SLUDGE DEWATERING				
	Salaries and Wages				
6100	Union Wages-Except Plant Maintenance	\$1,956,900	\$1,269,213	\$1,844,900	\$2,053,100
	Total Salaries and Wages	<u>1,956,900</u>	<u>1,269,213</u>	<u>1,844,900</u>	<u>2,053,100</u>
	Other Expenditures				
6425	Training and Seminars	0	0	0	0
6921	Electricity	775,000	448,221	768,000	736,000
6941	Water	268,000	136,036	233,000	247,000
7091	Miscellaneous Operating Supplies and Materials	20,000	6,311	10,000	15,000
7420	Equipment Repairs and Maintenance	5,000	2,070	5,000	5,000
7458	Vacuum/Jet Services	0	0	0	0
7811	Neutral pH Polymers	0	0	0	0
7816	High PH Polymers	780,000	464,442	800,000	1,160,000
7821	Caustic Soda	15,000	6,542	10,000	11,000
7826	Liquid Chlorine	0	0	0	0
7828	Sodium Hypochlorite	100,000	55,344	85,000	96,000
7836	Lime	0	0	0	0
7841	Potassium Permanganate	0	0	0	0
7845	Hydrochloric Acid	4,000	2,054	4,000	4,000
7851	Odor Control Supplies & Equipment	0	0	0	0
7856	Miscellaneous Plant Chemicals	1,000	0	0	1,000
	Total Other Expenditures	<u>1,968,000</u>	<u>1,121,020</u>	<u>1,915,000</u>	<u>2,275,000</u>
	Total Sludge Dewatering	<u><u>\$3,924,900</u></u>	<u><u>\$2,390,233</u></u>	<u><u>\$3,759,900</u></u>	<u><u>\$4,328,100</u></u>

**Schedule VI.11
Plant Operations**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
785	LIME STABILIZATION				
	Salaries and Wages				
6100	Union Wages-Except Plant Maintenance	<u>\$179,300</u>	<u>\$113,163</u>	<u>\$164,500</u>	<u>\$183,100</u>
	Total Salaries and Wages	<u>179,300</u>	<u>113,163</u>	<u>164,500</u>	<u>183,100</u>
	Other Expenditures				
6921	Electricity	200,000	114,400	200,000	190,000
6941	Water	13,500	7,151	11,000	11,700
7091	Miscellaneous Operating Supplies and Materials	2,000	606	2,000	2,000
7420	Equipment Repairs and Maintenance	5,000	2,665	5,000	5,000
7458	Vacuum/Jet Services	0	0	0	0
7836	Lime	500,000	238,377	400,000	460,000
	Total Other Expenditures	<u>720,500</u>	<u>363,199</u>	<u>618,000</u>	<u>668,700</u>
	Total Lime Stabilizat	<u><u>\$899,800</u></u>	<u><u>\$476,362</u></u>	<u><u>\$782,500</u></u>	<u><u>\$851,800</u></u>

**Schedule VI.12
Plant Operations**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
790	SECONDARY TREATMENT AND POST CHLORINATION				
	Salaries and Wages				
6011	Management Salary	\$0	\$0	\$0	\$0
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>
	Other Expenditures				
6425	Training and Seminars	0	0	0	0
6921	Electricity	1,550,000	893,602	1,530,000	1,470,000
7091	Miscellaneous Operating Supplies and Materials	15,000	8,367	15,000	10,000
7458	Vacuum/Jet Services	0	0	0	0
7828	Sodium Hypochlorite	425,000	239,178	410,000	461,000
7829	Sodium Bisulfite	111,300	65,597	105,000	105,000
7831	Defoamer	15,000	6,710	6,800	15,000
7856	Miscellaneous Plant Chemicals	0	0	0	0
	Total Other Expenditures	<u>2,116,300</u>	<u>1,213,454</u>	<u>2,066,800</u>	<u>2,061,000</u>
	Total Secondary Treatment and Post Chlorination	<u><u>\$2,116,300</u></u>	<u><u>\$1,213,454</u></u>	<u><u>\$2,066,800</u></u>	<u><u>\$2,061,000</u></u>

**Schedule VI.13
Plant Operations**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
799	GENERAL PLANT TREATMENT				
	Salaries and Wages				
6011	Management Salary	\$1,270,700	\$897,315	\$1,296,100	\$1,248,000
6100	Union Wages-Except Plant Maintenance	324,500	238,570	346,800	318,500
	Total Salaries and Wages	<u>1,595,200</u>	<u>1,135,885</u>	<u>1,642,900</u>	<u>1,566,500</u>
	Other Expenditures				
6425	Training and Seminars	65,000	15,249	40,000	100,000
6725	Other Communications	0	0	0	0
6811	Travel & Expense	0	0	0	0
6921	Electricity	420,000	241,973	420,000	399,000
6931	Natural Gas	80,000	54,024	92,500	92,000
6941	Water	1,344,000	686,423	1,100,000	1,200,000
7011	Plant Security	0	0	0	0
7091	Miscellaneous Operating Supplies and Materials	20,000	6,529	15,000	20,000
7391	Miscellaneous Office Supplies and Materials	10,000	1,170	5,000	10,000
7420	Equipment Repairs and Maintenance	10,000	0	0	10,000
7423	Equipment Rental	10,000	0	0	10,000
7426	Building Rental	0	0	0	0
7429	Registration Fees/Conferences	0	0	0	0
7432	Freight Charges	85,000	49,121	75,000	90,000
7435	Demurrage Charges	5,000	0	0	5,000
7441	Professional Association Fees	1,000	1,537	3,000	5,000
7511	Gas & Oil-Vehicle & Equipment	1,000	141	1,000	1,000
7711	EDP Hardware	1,000	0	1,000	0
7721	EDP Software	0	0	0	0
7751	Software Support Services	0	0	0	0
	Total Other Expenditures	<u>2,052,000</u>	<u>1,056,167</u>	<u>1,752,500</u>	<u>1,942,000</u>
	Total General Plant Treatment	<u><u>\$3,647,200</u></u>	<u><u>\$2,192,052</u></u>	<u><u>\$3,395,400</u></u>	<u><u>\$3,508,500</u></u>

Schedule VII

Professional Services

**Schedule VII
Professional Services**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
800	PROFESSIONAL SERVICES				
	Salaries and Wages	<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>
	Other Expenditures				
6611	Audit Fees	90,000	61,712	61,800	75,000
6614	Consulting Engineers	75,000	28,720	50,000	60,000
6617	Legal Expenses	650,000	484,067	750,000	900,000
6620	Trustee Fees	85,000	0	85,000	95,000
6623	Financial Advisory Fees	<u>30,000</u>	<u>10,000</u>	<u>30,000</u>	<u>35,000</u>
	Total Other Expenditures	<u>930,000</u>	<u>584,499</u>	<u>976,800</u>	<u>1,165,000</u>
	Total Professional Services	<u><u>\$930,000</u></u>	<u><u>\$584,499</u></u>	<u><u>\$976,800</u></u>	<u><u>\$1,165,000</u></u>

Schedule VIII Plant Maintenance

Schedule VIII.1 Plant Maintenance

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
110	EXECUTIVE ADMINISTRATION				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$39,100</u>	<u>\$49,177</u>	<u>\$71,500</u>	<u>\$81,900</u>
	Total Salaries and Wages	<u>39,100</u>	<u>49,177</u>	<u>71,500</u>	<u>81,900</u>
	Other Expenditures				
7106	Expendable Parts and Tools	1,500	940	1,500	1,500
7110	Instrumentation Repair and Maintenance	10,000	3,913	6,000	10,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>8</u>	<u>100</u>	<u>0</u>
	Total Other Expenditures	<u>11,500</u>	<u>4,861</u>	<u>7,600</u>	<u>11,500</u>
	Total Executive Administration	<u><u>\$50,600</u></u>	<u><u>\$54,038</u></u>	<u><u>\$79,100</u></u>	<u><u>\$93,400</u></u>

Schedule VIII.2 Plant Maintenance

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
125	SAFETY				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$2,600</u>	<u>\$6,519</u>	<u>\$9,500</u>	<u>\$10,900</u>
	Total Salaries and Wages	<u>2,600</u>	<u>6,519</u>	<u>9,500</u>	<u>10,900</u>
	Other Expenditures				
7106	Expendable Parts and Tools	1,000	109	200	1,000
7110	Instrumentation Repair and Maintenance	20,000	7,395	15,000	20,000
7111	Signs & Stakes	0	0	0	0
7191	Miscellaneous Maintenance Supplies &	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Other Expenditures	<u>21,000</u>	<u>7,504</u>	<u>15,200</u>	<u>21,000</u>
	Total Executive Administration	<u>\$23,600</u>	<u>\$14,023</u>	<u>\$24,700</u>	<u>\$31,900</u>

Schedule VIII.3 Plant Maintenance

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
130	ACCOUNTING/FINANCE				
	Salaries and Wages				
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>
	Other Expenditures				
7106	Expendable Parts and Tools	0	2,210	3,500	0
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>81</u>	<u>100</u>	<u>0</u>
	Total Other Expenditures	<u>0</u>	<u>2,291</u>	<u>3,600</u>	<u>0</u>
	Total Executive Administration	<u><u>\$0</u></u>	<u><u>\$2,291</u></u>	<u><u>\$3,600</u></u>	<u><u>\$0</u></u>

**Schedule VIII.4
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
140	PURCHASING				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$1,000</u>	<u>\$41</u>	<u>\$100</u>	<u>\$0</u>
	Total Salaries and Wages	<u>1,000</u>	<u>41</u>	<u>100</u>	<u>0</u>
	Other Expenditures				
7106	Expendable Parts and Tools	0	0	0	0
7110	Instrumentation Repair and Maintenance	0	0	0	0
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>93</u>	<u>100</u>	<u>0</u>
	Total Other Expenditures	<u>0</u>	<u>93</u>	<u>100</u>	<u>0</u>
	Total Purchasing	<u><u>\$1,000</u></u>	<u><u>\$134</u></u>	<u><u>\$200</u></u>	<u><u>\$0</u></u>

Schedule VIII.5 Plant Maintenance

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
200	MANAGEMENT INFORMATION SYSTEMS				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$2,500</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
	Total Salaries and Wages	<u>2,500</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
7106	Expendable Parts and Tools	0	0	0	0
7110	Instrumentation Repair and Maintenance	20,000	3,664	16,000	20,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Other Expenditures	<u>20,000</u>	<u>3,664</u>	<u>16,000</u>	<u>20,000</u>
	Total Management Information Systems	<u><u>\$22,500</u></u>	<u><u>\$3,664</u></u>	<u><u>\$16,000</u></u>	<u><u>\$20,000</u></u>

**Schedule VIII.6
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
300	CUSTOMER SERVICE AND BILLING				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$14,500</u>	<u>\$13,446</u>	<u>\$19,500</u>	<u>\$22,400</u>
	Total Salaries and Wages	<u>14,500</u>	<u>13,446</u>	<u>19,500</u>	<u>22,400</u>
	Other Expenditures				
7106	Expendable Parts and Tools	2,000	0	0	2,000
7110	Instrumentation Repair and Maintenance	30,000	16,726	20,000	16,000
7191	Miscellaneous Maintenance Supplies and Expenses	0	0	0	0
	Total Other Expenditures	<u>32,000</u>	<u>16,726</u>	<u>20,000</u>	<u>18,000</u>
	Total Billing and Collecting	<u><u>\$46,500</u></u>	<u><u>\$30,172</u></u>	<u><u>\$39,500</u></u>	<u><u>\$40,400</u></u>

**Schedule VIII.7
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
405	ENGINEERING ADMINISTRATION				
	Salaries and Wages				
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>
	Other Expenditures				
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>
	Total Engineering Administration	<u><u>\$0</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	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
510	LABORATORY				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$40,600</u>	<u>\$30,660</u>	<u>\$44,600</u>	<u>\$51,100</u>
	Total Salaries and Wages	<u>40,600</u>	<u>30,660</u>	<u>44,600</u>	<u>51,100</u>
	Other Expenditures				
7106	Expendable Parts and Tools	5,000	323	500	5,000
7110	Instrumentation Repair and Maintenance	20,000	7,042	15,000	20,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>711</u>	<u>1,000</u>	<u>0</u>
	Total Other Expenditures	<u>25,000</u>	<u>8,076</u>	<u>16,500</u>	<u>25,000</u>
	Total Laboratory	<u><u>\$65,600</u></u>	<u><u>\$38,736</u></u>	<u><u>\$61,100</u></u>	<u><u>\$76,100</u></u>

**Schedule VIII.9
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
520	INDUSTRIAL WASTE				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$2,500</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
	Total Salaries and Wages	<u>2,500</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
7106	Expendable Parts and Tools	1,000	120	200	1,000
7110	Instrumentation Repair and Maintenance	5,000	384	1,000	5,000
7191	Miscellaneous Maintenance Supplies and Expenses	0	1,064	1,500	0
	Total Other Expenditures	<u>6,000</u>	<u>1,568</u>	<u>2,700</u>	<u>6,000</u>
	Total Industrial Waste	<u><u>\$8,500</u></u>	<u><u>\$1,568</u></u>	<u><u>\$2,700</u></u>	<u><u>\$6,000</u></u>

**Schedule VIII.10
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
705	OPERATIONS & MAINTENANCE ADMINISTRATION				
	Salaries and Wages				
6200	Plant Maintenance Labor	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
7106	Expendable Parts and Tools	0	0	0	0
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>1,911</u>	<u>2,000</u>	<u>0</u>
	Total Other Expenditures	<u>0</u>	<u>1,911</u>	<u>2,000</u>	<u>0</u>
	Total Operations & Maintenance Administration	<u><u>\$0</u></u>	<u><u>\$1,911</u></u>	<u><u>\$2,000</u></u>	<u><u>\$0</u></u>

**Schedule VIII.11
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
710	MAIN PUMP STATION				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$114,800</u>	<u>\$35,025</u>	<u>\$50,900</u>	<u>\$58,300</u>
	Total Salaries and Wages	<u>114,800</u>	<u>35,025</u>	<u>50,900</u>	<u>58,300</u>
	Other Expenditures				
7106	Expendable Parts and Tools	150,000	37,046	375,000	200,000
7110	Instrumentation Repair/Maintenance	75,000	8,645	40,000	75,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>375</u>	<u>500</u>	<u>0</u>
	Total Other Expenditures	<u>225,000</u>	<u>46,066</u>	<u>415,500</u>	<u>275,000</u>
	Total Main Pump Station	<u><u>\$339,800</u></u>	<u><u>\$81,091</u></u>	<u><u>\$466,400</u></u>	<u><u>\$333,300</u></u>

**Schedule VIII.12
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
720	RACK AND GRIT				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$162,500</u>	<u>\$63,828</u>	<u>\$92,800</u>	<u>\$106,300</u>
	Total Salaries and Wages	<u>162,500</u>	<u>63,828</u>	<u>92,800</u>	<u>106,300</u>
	Other Expenditures				
7106	Expendable Parts and Tools	120,000	86,013	130,000	120,000
7110	Instrumentation Repair/Maintenance	30,000	3,658	25,000	30,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>375</u>	<u>500</u>	<u>0</u>
	Total Other Expenditures	<u>150,000</u>	<u>90,046</u>	<u>155,500</u>	<u>150,000</u>
	Total Rack and Grit	<u><u>\$312,500</u></u>	<u><u>\$153,874</u></u>	<u><u>\$248,300</u></u>	<u><u>\$256,300</u></u>

**Schedule VIII.13
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
730	MOBILE EQUIPMENT FOR TREATMENT				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$6,100</u>	<u>\$1,721</u>	<u>\$2,500</u>	<u>\$2,800</u>
	Total Salaries and Wages	<u>6,100</u>	<u>1,721</u>	<u>2,500</u>	<u>2,800</u>
	Other Expenditures				
7106	Expendable Parts and Tools	60,000	37,921	60,000	60,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>3,009</u>	<u>4,000</u>	<u>0</u>
	Total Other Expenditures	<u>60,000</u>	<u>40,930</u>	<u>64,000</u>	<u>60,000</u>
	Total Mobile Equipment for Treatment	<u><u>\$66,100</u></u>	<u><u>\$42,651</u></u>	<u><u>\$66,500</u></u>	<u><u>\$62,800</u></u>

**Schedule VIII.14
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
740	PRIMARY SEDIMENTATION				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$148,200</u>	<u>\$93,061</u>	<u>\$135,300</u>	<u>\$154,900</u>
	Total Salaries and Wages	<u>148,200</u>	<u>93,061</u>	<u>135,300</u>	<u>154,900</u>
	Other Expenditures				
7106	Expendable Parts & Tools	160,000	110,627	165,000	160,000
7110	Instrumentation Repair/Maintenance	44,600	18,259	35,000	44,600
7191	Miscellaneous Maintenance Supplies & Expenses	<u>0</u>	<u>375</u>	<u>0</u>	<u>0</u>
	Total Other Expenditures	<u>204,600</u>	<u>129,261</u>	<u>200,000</u>	<u>204,600</u>
	Total Primary Sedimentation	<u><u>\$352,800</u></u>	<u><u>\$222,322</u></u>	<u><u>\$335,300</u></u>	<u><u>\$359,500</u></u>

**Schedule VIII.15
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
760	BOILERS				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$6,300</u>	<u>\$1,021</u>	<u>\$1,500</u>	<u>\$1,700</u>
	Total Salaries and Wages	<u>6,300</u>	<u>1,021</u>	<u>1,500</u>	<u>1,700</u>
	Other Expenditures				
7106	Expendable Parts and Tools	3,500	14,815	15,000	3,500
7110	Instrumentation Repair/Maintenance	500	0	100	500
7191	Miscellaneous Maintenance Supplies & Expenses	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Other Expenditures	<u>4,000</u>	<u>14,815</u>	<u>15,100</u>	<u>4,000</u>
	Total Boilers	<u><u>\$10,300</u></u>	<u><u>\$15,836</u></u>	<u><u>\$16,600</u></u>	<u><u>\$5,700</u></u>

**Schedule VIII.16
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
770	ENERGY RECOVERY				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$443,400</u>	<u>\$218,026</u>	<u>\$316,900</u>	<u>\$362,900</u>
	Total Salaries and Wages	<u>443,400</u>	<u>218,026</u>	<u>316,900</u>	<u>362,900</u>
	Other Expenditures				
6426	Maintenance Training	0	0	0	0
7106	Expendable Parts and Tools	400,000	148,464	300,000	400,000
7110	Instrumentation Repair/Maintenance	110,000	89,252	160,000	110,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>711</u>	<u>1,000</u>	<u>0</u>
	Total Other Expenditures	<u>510,000</u>	<u>238,427</u>	<u>461,000</u>	<u>510,000</u>
	Total Energy Recovery	<u><u>\$953,400</u></u>	<u><u>\$456,453</u></u>	<u><u>\$777,900</u></u>	<u><u>\$872,900</u></u>

**Schedule VIII.17
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
780	SLUDGE DEWATERING				
	Salaries and Wages				
6200	Plant Maintenance Labor	\$376,600	\$145,485	\$211,500	\$242,100
	Total Salaries and Wages	<u>376,600</u>	<u>145,485</u>	<u>211,500</u>	<u>242,100</u>
	Other Expenditures				
7106	Expendable Parts and Tools	400,000	158,329	250,000	400,000
7110	Instrumentation Repair/Maintenance	60,000	26,514	60,000	60,000
7191	Miscellaneous Maintenance Supplies and Expenses	0	3,466	4,000	0
	Total Other Expenditures	<u>460,000</u>	<u>188,309</u>	<u>314,000</u>	<u>460,000</u>
	Total Sludge Dewatering	<u><u>\$836,600</u></u>	<u><u>\$333,794</u></u>	<u><u>\$525,500</u></u>	<u><u>\$702,100</u></u>

**Schedule VIII.18
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
785	LIME STABILIZATION DEWATERING				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$81,000</u>	<u>\$44,442</u>	<u>\$64,600</u>	<u>\$73,900</u>
	Total Salaries and Wages	<u>81,000</u>	<u>44,442</u>	<u>64,600</u>	<u>73,900</u>
	Other Expenditures				
7106	Expendable Parts and Tools	60,000	8,748	15,000	60,000
7110	Instrumentation Repair/Maintenance	30,000	9,634	17,000	30,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>10</u>	<u>100</u>	<u>0</u>
	Total Other Expenditures	<u>90,000</u>	<u>18,392</u>	<u>32,100</u>	<u>90,000</u>
	Total Lime Stabilization Dewatering	<u><u>\$171,000</u></u>	<u><u>\$62,834</u></u>	<u><u>\$96,700</u></u>	<u><u>\$163,900</u></u>

**Schedule VIII.19
Plant Maintenance**

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
790	SECONDARY TREATMENT AND POST CHLORINATION				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$321,900</u>	<u>\$230,098</u>	<u>\$334,500</u>	<u>\$383,000</u>
	Total Salaries and Wages	<u>321,900</u>	<u>230,098</u>	<u>334,500</u>	<u>383,000</u>
	Other Expenditures				
7106	Expendable Parts and Tools	200,000	64,716	100,000	200,000
7110	Instrumentation Repair/Maintenance	90,000	55,895	90,000	90,000
7191	Miscellaneous Maintenance Supplies and Expenses	<u>0</u>	<u>511</u>	<u>1,000</u>	<u>0</u>
	Total Other Expenditures	<u>290,000</u>	<u>121,122</u>	<u>191,000</u>	<u>290,000</u>
	Total Secondary Treatment and Post Chlorination	<u><u>\$611,900</u></u>	<u><u>\$351,220</u></u>	<u><u>\$525,500</u></u>	<u><u>\$673,000</u></u>

Schedule VIII.20 Plant Maintenance

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
799	GENERAL PLANT TREATMENT				
	Salaries and Wages				
6200	Plant Maintenance Labor	<u>\$5,661,900</u>	<u>\$3,658,676</u>	<u>\$5,318,300</u>	<u>\$6,089,500</u>
	Total Salaries and Wages	<u>5,661,900</u>	<u>3,658,676</u>	<u>5,318,300</u>	<u>6,089,500</u>
	Other Expenditures				
6426	Maintenance Training	100,000	98,155	125,000	100,000
7093	Stores Physical Adjustment	0	12,978	0	0
7094	Stores Average Price Adjustment	0	0	0	0
7106	Expendable Parts and Tools	100,000	93,516	140,000	120,000
7110	Instrumentation Repair and Maintenance	100,000	62,284	100,000	100,000
7111	Signs & Stakes	0	0	0	0
7191	Miscellaneous Maintenance Supplies and Expenses	120,000	85,925	130,000	120,000
7411	Pest Control	5,000	3,183	5,000	5,000
7414	Janitorial	80,000	52,111	80,000	80,000
7417	Grounds Keeping	<u>25,000</u>	<u>19,595</u>	<u>30,000</u>	<u>25,000</u>
	Total Other Expenditures	<u>530,000</u>	<u>427,747</u>	<u>610,000</u>	<u>550,000</u>
	Total General Plant Treatment	<u><u>\$6,191,900</u></u>	<u><u>\$4,086,423</u></u>	<u><u>\$5,928,300</u></u>	<u><u>\$6,639,500</u></u>

Schedule IX Employee Benefits

Schedule IX Employee Benefits

Acct. No.	Account Description	2021 Budget	2021 Actual to 8/31	2021 Projected	2022 Budget
120	EMPLOYEE BENEFITS				
	Salaries and Wages	\$0	\$0	\$0	\$0
	Total Salaries and Wages	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Other Expenditures				
6404	Hospitalization-Authority	11,336,300	6,360,250	9,600,400	11,143,600
6405	Hospitalization-Opt Out	68,600	35,844	53,800	67,500
6410	Eye Care Plan	52,000	33,003	49,600	52,400
6413	Dental Plan	358,600	224,089	336,200	361,500
6415	Employee HC Contribution	-341,100	-177,426	-266,200	-499,300
6416	Life Insurance and Weekly Income Projection	858,400	463,340	695,000	846,700
6419	Employee Assistance Program	10,800	8,134	12,300	12,000
6422	Tuition Reimbursement	40,000	4,040	6,100	20,000
6425	Training and Seminars	3,000	2,445	3,700	4,000
6428	Pension-Union Plan	4,019,800	2,679,880	4,100,900	4,280,500
6431	Pension-Management Plan	2,955,700	1,970,456	3,000,700	2,855,400
6432	Post Employee Benefits (GASB 45)	2,930,800	1,953,866	2,930,800	3,018,700
6434	Actuarial Costs-Pension	147,500	52,555	78,900	133,700
6436	Other Benefits Consulting	60,000	67,360	101,000	60,000
6505	FICA-Authority Share	3,254,300	1,807,991	2,712,000	2,793,400
6508	Workers Compensation	750,000	604,064	906,100	688,600
6511	Unemployment Compensation-Self Insured	25,000	18,393	27,600	35,000
6514	Background Investigations	7,000	2,054	3,100	7,000
6517	Physical Examinations	26,500	11,758	17,700	34,800
6520	Uniform Rental	45,000	31,992	48,000	45,000
6523	Miscellaneous Human Resource Services	75,000	30,158	45,200	75,000
	Total Other Expenditures	<u>26,683,200</u>	<u>16,184,246</u>	<u>24,462,900</u>	<u>26,035,500</u>
	Total Employee Benefits	<u><u>\$26,683,200</u></u>	<u><u>\$16,184,246</u></u>	<u><u>\$24,462,900</u></u>	<u><u>\$26,035,500</u></u>

Appendix A

2020 – 2021 Monthly Loading and Performance Summary

ALLEGHENY COUNTY SANITARY AUTHORITY ALCOSAN WASTEWATER TREATMENT PLANT 2020 - 2021 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 mg/l LB/D	TSS mg/l LB/D	NH3-N mg/l LB/D	DO mg/l	CL2 mg/l	pH S.U.
					BOD5 LB/D	TSS LB/D				CBOD5 LB/D	TSS LB/D	NH3-N LB/D							
	MGD	MGD	mg/l	mg/l	LB/D	LB/D	mg/l	mg/l	mg/l	LB/D	LB/D	LB/D	#/100 ml	mg/l	mg/l	mg/l			
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 9.0 MAX
OCTOBER 2020	154.9	235.7	81	135	103,501	175,708	4.7	11.0	1.2	6,111	15,546	1,506	4	5.0 7,440	16.0 25,900	1.2 1,677	7.6	0.42	6.9 7.1
NOVEMBER 2020	158.9	217.5	81	159	106,549	208,361	6.8	15.0	1.1	9,217	20,436	1,430	13	9.9 14,476	19.0 27,359	1.0 1,469	7.4	0.43	7.0 7.3
DECEMBER 2020	191.4	247.2	67	106	100,890	159,566	9.5	14.0	1.2	15,543	22,822	1,893	72	12.0 23,314	16.0 32,080	1.6 2,305	6.8	0.34	6.7 7.2
JANUARY 2021	182.8	248.0	66	132	95,594	192,065	8.0	13.0	1.6	12,159	19,418	2,421	19	8.5 15,434	18.0 24,565	2.9 3,966	7.5	0.39	6.8 7.2
FEBRUARY 2021	192.1	249.8	68	91	105,853	145,044	7.9	11.0	2.7	12,783	18,443	4,209	47	9.4 15,913	16.0 26,716	3.2 4,583	7.1	0.41	6.6 7.6
MARCH 2021	199.0	248.7	62	87	100,828	145,014	6.5	7.0	1.9	10,695	12,236	3,056	24	7.1 11,157	8.0 13,976	2.9 4,547	6.6	0.42	6.7 7.2
APRIL 2021	181.2	226.2	85	111	126,711	165,345	6.4	7.0	1.2	9,732	10,219	1,747	3	6.6 10,051	7.0 10,271	1.3 1,985	7.1	0.43	6.7 7.3
MAY 2021	201.1	250.0	70	87	115,685	142,100	7.2	8.0	1.1	12,167	12,844	1,766	8	7.7 14,061	10.0 19,522	1.2 2,230	6.4	0.35	6.8 7.2
JUNE 2021	187.0	250.0	82	119	126,038	183,304	6.1	6.0	1.1	9,585	9,463	1,667	5	6.6 10,165	6.0 9,957	1.3 1,985	7.2	0.36	6.8 7.0
JULY 2021	192.2	243.7	67	109	103,419	170,589	6.0	9.0	1.0	9,598	13,606	1,657	10	6.0 10,804	9.0 19,008	1.0 1,801	7.4	0.31	6.8 7.2
AUGUST 2021	195.4	250.0	63	128	97,029	204,833	3.5	7.0	1.0	5,591	11,631	1,630	11	3.8 6,014	10.0 13,777	1.0 1,815	7.6	0.35	6.9 7.4
SEPTEMBER 2021	206.7	250.0	62	128	103,787	214,210	4.8	11.0	1.0	8,205	19,502	1,724	18	5.5 9,729	13.0 25,575	1.0 1,975	7.9	0.27	6.8 7.2
ANNUAL AVERAGE	186.9	250.0	71	116	107,157	175,512	6	10	1.3	10,116	15,514	2,059	20	12,380	20,726	2,528	6.4	0.37	7.2

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
AUTHORIZED POSITIONS**

Cost Center	Department	Position Title	Actual	Budget
110	Executive Director's Office			
	Arletta Williams	Executive Director	1	1
	Mira Praytor	Executive Assistant	1	1
	Vacant	Administrative Specialist	0	1
	Vacant	Administrative Specialist	0	1
	Vacant	Grants Administrator	0	1
	Vacant	Director	0	1
	Vacant	Director	0	1
		Total FTES	2	7
430	Contract Administration			
	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
		Total FTES	4	7
115	Public Relations			
	Joseph Vallarian	Director of Communications	1	1
	Sheila Holt	Manager of Communications	1	1
	Sean Biagi	Web Administrator/Designer	1	1
	Vacant	Administrative Secretary	0	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
		Total FTES	7	9
	Graphic Clerk		1	2
		Total FTES	1	2

AUTHORIZED POSITIONS

116	Municipal Outreach			
	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
		Total FTES	5	7
117	Scholastic Programs			
	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
	Vacant	Scholastic Support Specialist	0	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
		Total FTES	5	13
	Scholastic Outreach Representatives		10	20
	Scholastic Outreach Clerk		0	1
		Total FTES	10	21
130	Finance and Administration			
	Karen Fantoni	Director of Finance and Administration	1	1
	Vicki Crowe	Administrative Assistant	1	1
	Reitlinger, James	Claims Specialist - Insurance	1	1
	Vacant	Capital Assets Specialist	0	1
		Total FTES	3	4

AUTHORIZED POSITIONS

	<i>Accounting Department</i>			
	Lori McKay	Manager of Accounting	1	1
	Vacant	Accounting Supervisor	0	1
	Kirsten Pastrick	Payroll Supervisor	1	1
		Total FTES	2	3
	Chief Accounting Clerk		1	1
	Payroll Clerk		1	2
	Accounts Payable Clerk		2	2
		Total FTES	4	5
300	<i>Customer Service and Billing</i>			
	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
		Total FTES	4	4
	Secretary to Manager		0	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

AUTHORIZED POSITIONS

	<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		0	1
		Total FTES	18	21
120	<i>Human Resources Department</i>			
	Donna Skundrich	Manager of Human Resources	1	1
	Shelly King	Administrative Specialist (Benefits)	1	1
	Sue Martire	Administrative Assistant	1	1
	Vacant	Benefits Support Specialist	0	1
	Hannah Martorelli	Health & Wellness Advisor	1	1
	Vacant	HRIS Analyst	0	1
	Vacant	HR Generalist	0	1
	Raymond Mroch	Compensation Analyst	1	1
		Total FTES	5	8
122	Robert Stimmler	Sr. Training & Development Specialist	1	1
	Matthew Griener	Learning & Development Specialist	1	1
	Vacant	Learning & Development Specialist	0	1
		Total FTES	2	3
125	<i>Loss Control</i>			
	Clark Yannotti	Manager of Loss Control (Safety)	1	1
	Vacant	Administrative Specialist I Safety	0	1
	Stacy DeMasi	Manager of Security	1	1
	Vacant	Administrative Supervisor I Security	0	1
	Lou Mellinger	Assistant Supervisor Security	1	1
	Dylan Thomas	Safety Specialist	1	1
		Total FTES	4	6
	Safety and Training Technician		1	1
	Security Clerk		1	1
	Group Leader Guards		0	1
	Guards		12	12
		Total FTES	14	15

AUTHORIZED POSITIONS

200	<i>MIS Department</i>			
	Jack Tallon	Manager of MIS	1	1
	Robert Hoffman	MIS supervisor	1	1
	Melissa Ippolito	ECM Support Specialist II	1	1
	Vacant	Cyber Security Specialist	0	1
		Total FTES	3	4
	Secretary		1	1
	Analyst Programmer		8	9
	Computer Operator		3	4
	Microcomputer Specialists		2	2
	Telecommunications Specialist		2	2
		Total FTES	16	18
140	<i>Purchasing Department</i>			
	Raymond Meyer	Manager of Purchasing	1	1
	Rita Stone	Administrative Supervisor (Storeroom)	1	1
	Ben Heilman	Administrative Supervisor (Contracts)	1	1
		Total FTES	3	3
	Clerk/Messenger		1	1
	Purchasing Clerk		2	2
	File Clerk/Typist Purchasing		1	1
	Storekeeper		1	1
	Assistant Storekeeper		2	3
		Total FTES	7	8
705	<i>Operations and Maintenance</i>			
	<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
		Total FTES	3	3

AUTHORIZED POSITIONS

799	Operations Department			
	John Regan	Manager of Operations	1	1
	Michael Priore	Solid Process Superintendent	1	1
	Shana Marciniak	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
	Vacant	Operations Training Specialist	0	1
		Total FTES	11	12
	<u>Liquid Process</u>			
	Liquid Proc. Control Rm/Field Operators		20	20
	Liquid Process Utility Operators		4	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		3	3
	Dispatchers		2	2
	Operator Tri-axle Truck		2	2
		Total FTES	64	65

AUTHORIZED POSITIONS

799	<i>Mechanical Maintenance Department</i>			
	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
	Vacant	Maintenance Supervisor	0	1
	LaTanya Brown	Maintenance Labor Supervisor	1	1
		Total FTES	7	10
	Auto Mechanics/Apprentices		5	6
	Maintenance Clerk		1	1
	Mechanics/Apprentices		16	25
	Welders/Apprentices		4	4
	Lubrication Mechanics		3	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		10	10
		Total FTES	59	70
799	<i>Electrical Maintenance Department</i>			
	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
		Total FTES	5	5
	Electricians/Apprentices		7	10
	Instrument Repair Technicians/Apprentices		7	8
	HVAC Mechanic/Apprentices		4	4
		Total FTES	18	22

AUTHORIZED POSITIONS

505	Environmental Compliance			
	<i>Director's Office</i>			
	Michelle Buys	Director of Environmental Compliance	1	1
	Kimberly Marunczak	Environmental Audit Specialist	1	1
	Vacant	Compliance Specialist II	0	1
	Melissa Preston	Administrative Assistant	1	1
		Total FTES	3	4
530	Residuals Department			
	Robert Martire	Residuals Program Manager	1	1
	Megan Cieslak-Mazza	Residuals Specialist	1	1
	Vacant	Residuals Specialist	0	1
	Lorna Shea	Agronomist	1	1
		Total FTES	3	4
	Residuals Clerk		1	1
		Total FTES	1	1
520	Industrial Waste Department			
	Tina Dean	Manager of Industrial Waste	1	1
	Ronald Stevenson	Sampling & Compliance Supervisor	1	1
	Lisa McCray	Administrative Supervisor - IW	1	1
		Total FTES	3	3
	Clerk Typist Industrial Waste		2	2
	Sampler/Investigator		14	16
		Total FTES	16	18
510	Laboratory Department			
	Betty Kindle	Manager of Laboratory	1	1
	Kimberly Crisi	Laboratory Supervisor	1	1
	Vacant	Quality Control Analyst	0	1
	Maureen Dobransky	Quality Control Officer	1	1
		Total FTES	3	4

AUTHORIZED POSITIONS

	Laboratory Chemist		11	9
	Laboratory Technician		2	4
	Laboratory Clerk		1	1
	General Maint. Laboratory		1	1
		Total FTES	15	15
540	ECM Systems			
	Anne Donahue	ECM Manager	1	1
	Vacant	Administrative Secretary	0	1
	Vacant	Administrative Specialist I	0	1
	Vacant	Administrative Specialist II	0	1
		Total FTES	1	4
405	Engineering and Construction			
	<i>Director's Office</i>			
	Kimberly Kennedy	Director of Engineering & Construction	1	1
	Kathleen Uniatowski	Administrative Assistant	1	1
	Vacant	Manager Program Management	0	1
	Steve Miller	Drafting/CADD Supervisor	1	1
		Total FTES	3	4
	Contract Clerk		2	2
	Clerk Typist/Engineering		1	1
		Total FTES	3	3
420	Capital Projects			
	Jefferson Argyros	Manager of Capital Projects - Treatment	1	1
	Vacant	Project Engineer II	0	1
	Elizabeth Joyce	Project Engineer II	1	1
	Vacant	Project Engineer III	0	1
	Raymond Stasny	Construction Supervisor	1	1
	Jeffrey Mazza	Project Engineer III	1	1
	Dustin Copenhaver	Civil Engineer I	1	1
	Vacant	Electrical Engineer	0	1
	Vacant	Project Engineer II	0	1
	Cody Edgell	Civil Engineer	1	1
	Vacant	Engineer	0	1
		Total FTES	6	11

AUTHORIZED POSITIONS

	Designers		2	2
	Surveyor		0	1
	Department Clerk		0	1
		Total FTES	2	4
410	<i>OR/CD Administrator</i>			
	Vacant	Administrative Assistant	0	1
		Total FTES	0	1
605	Regional Conveyance			
	<i>Director's Office</i>			
	Michael Lichte	Director of Regional Conveyance	1	1
	Jillian Sanchioli	Administrative Secretary	1	1
	Joseph Sparbanie	Civil Engineer - RC	1	1
	Shawn McWilliams	Environmental Construction Supervisor	1	1
	Vacant	GIS Specialist	0	1
	Benjamin Reynolds	GIS Specialist	1	1
	Vacant	GIS Analyst	0	1
	Vacant	Manager of Planning	0	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
		Total FTES	8	15
440	Wet Weather Programs (CSO)			
	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
	Vacant	Administrative Assistant	0	1
	Julia Spicher	Civil Engineer	1	1
		Total FTES	5	8

AUTHORIZED POSITIONS

	Clerk Wet Weather Program		0	1
	Environmental Monitoring Technician		6	6
		Total FTES	6	7
690	<i>Interceptor Systems</i>			
	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
	Bernard Spada	Supervisor I Interceptor Systems	1	1
	Jakubowski, Matthew	Supervisor I Interceptor Systems	1	1
	Vacant	Interceptor Systems Superintendent	0	1
		Total FTES	8	10
	Boat Operator		2	2
	Assistant Boat Operator		1	1
	Crew Leader Interceptor Maint. Pump Station		1	1
	Crew Leader Interceptor Video Inspection		3	3
	Pump Station Driver/Assistant Operator		1	1
	Laborer Operator Maint. Truck Driver		4	4
	Laborer Interceptor Structures		4	4
	Interceptor Systems Inspector/Spotter		3	3
	Regional Conveyance Clerk		1	1
	Hi-Velocity Combo Unit Driver		4	6
	Crew Leader Interceptor Maint. Structures		4	4
	Video Inspection Driver/Assistant		3	3
	Laborer Interceptor Pump Stations		1	1
	Laborer Interceptor Video Truck		3	3
	IS Welder		0	1
	Building & Construction Mechanic - IS		0	1
	Laborer (Construction)		0	1
	Interceptor Systems Helper		3	6
		Total FTES	38	46

AUTHORIZED POSITIONS

660	Regionalized Facilities			
	Vacant	Supervisor I Interceptor Systems	0	1
	Vacant	Municipal Coordinator	0	1
		Total FTES	0	2
	Crew Leader Interceptor Maint. Structures		0	2
	Crew Leader Interceptor Maint. Pump Station		0	1
	Pump Station Driver/Assistant Operator		0	1
	Laborer Operator Maint. Truck Driver		0	2
	Laborer Interceptor Structures		0	2
	Interceptor Systems Inspector/Spotter		0	2
	Laborer Interceptor Pump Stations		0	1
	Hi-Velocity Combo Unit Driver		0	1
		Total FTES	0	12
		All FTES	410	531

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*did not put OR/CD Admin Assistant in the HRIS system

actual # of Ees in that position are less than budget

Line total for department

of Ees in the position are higher than what was budgeted