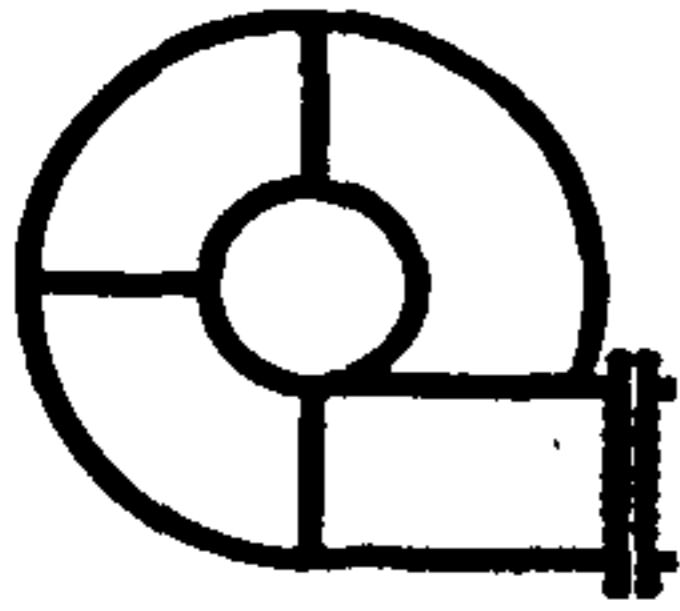
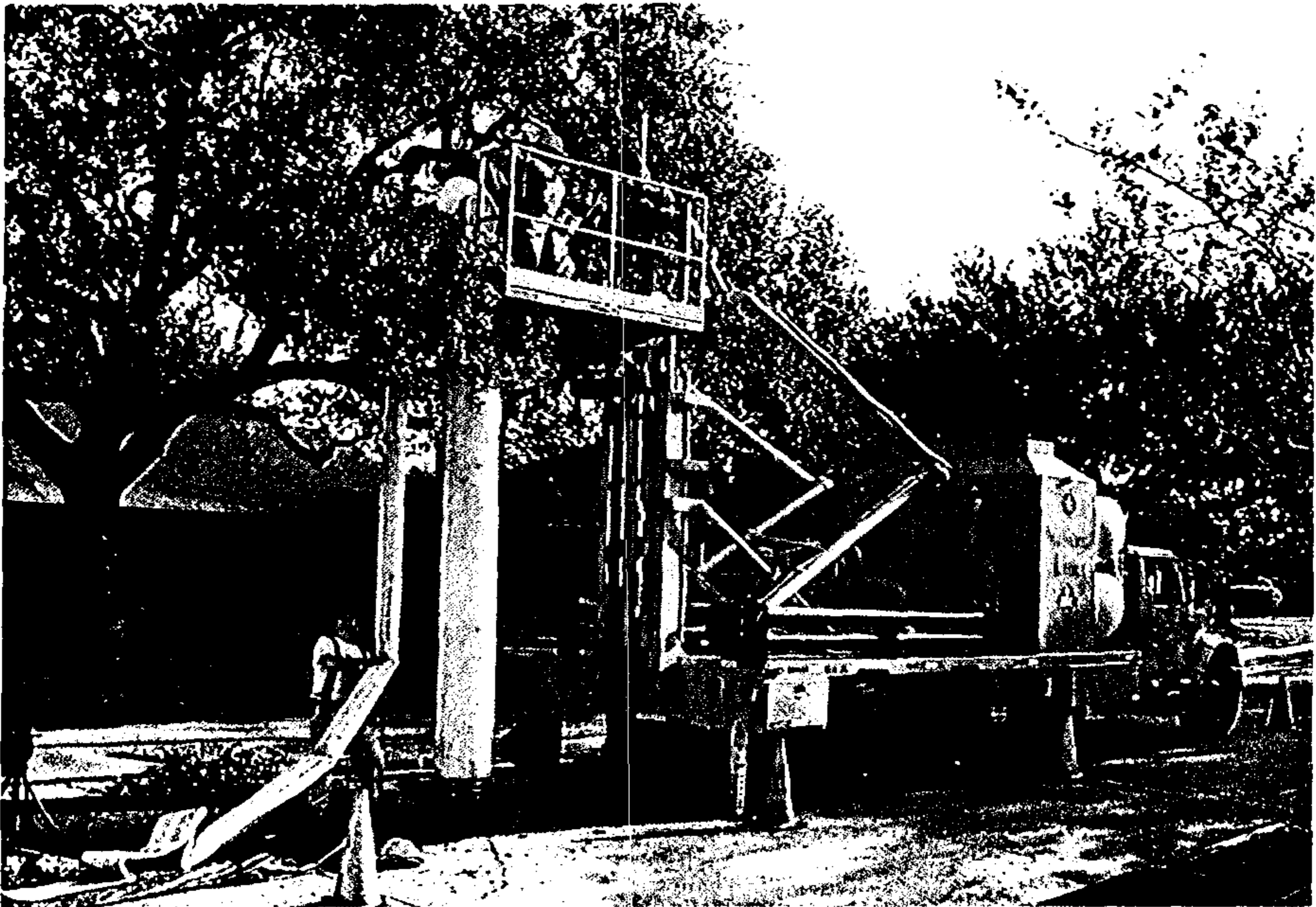


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***Sewerage and Water Board***  
**OF NEW ORLEANS, LA.**



**COMPREHENSIVE ANNUAL  
FINANCIAL REPORT**

FOR THE YEAR ENDED  
DECEMBER 31, 2001

#### About the Cover:

The Sewerage and Water Board of New Orleans is in the process of studying and rehabilitating the entire sewage collection system through its \$450 million Sewer System Evaluation and Rehabilitation Program (SSERP) which began in 1997. The Board, wherever possible, is using the cured-in-place process to re-line broken lines throughout the city. This trenchless or no-dig technology is an alternative to point repairs which require excavation. The modern process minimizes disruptions and reduces costs.

**SEWERAGE AND WATER BOARD  
OF NEW ORLEANS**

**Comprehensive Annual Financial Report**

**For the Year Ended**

**December 31, 2001**

Under provisions of state law, this report is a public document. A copy of the report has been submitted to the entity and other appropriate public officials. The report is available for public inspection at the Baton Rouge office of the Legislative Auditor and, where appropriate, at the office of the parish clerk of court.

Release Date 8/21/02

**Prepared by:  
Finance Administration  
Ethel H. Williams  
Utility Financial Administrator**

## **MISSION STATEMENT**

*To be one of the best and most respected suppliers of sewer, water, and drainage services in the south-central United States by providing quality, reliable, and cost effective services to our Customers while maintaining fair and ethical treatment of our well-trained and highly motivated employees.*

## **OUR VALUES**

*Open, honest communication*

*Trust and respect for each other*

*Offering and encouraging education and opportunity to employees*

*Fostering enthusiasm among employees through example of the managers/supervisors*

*Providing direction and planning and encouraging interdepartmental team work*

*Assuring reliability in providing services to customers*

## **KEY RESULT AREAS**

*Customer Satisfaction*

*Cost Effectiveness*

*Employee Satisfaction*

*Capabilities Improvement through Training*

SEWERAGE AND WATER BOARD OF NEW ORLEANS

Comprehensive Annual Financial Report

Year ended December 31, 2001

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SEWERAGE AND WATER BOARD OF NEW ORLEANS

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SEWERAGE AND WATER BOARD OF NEW ORLEANS

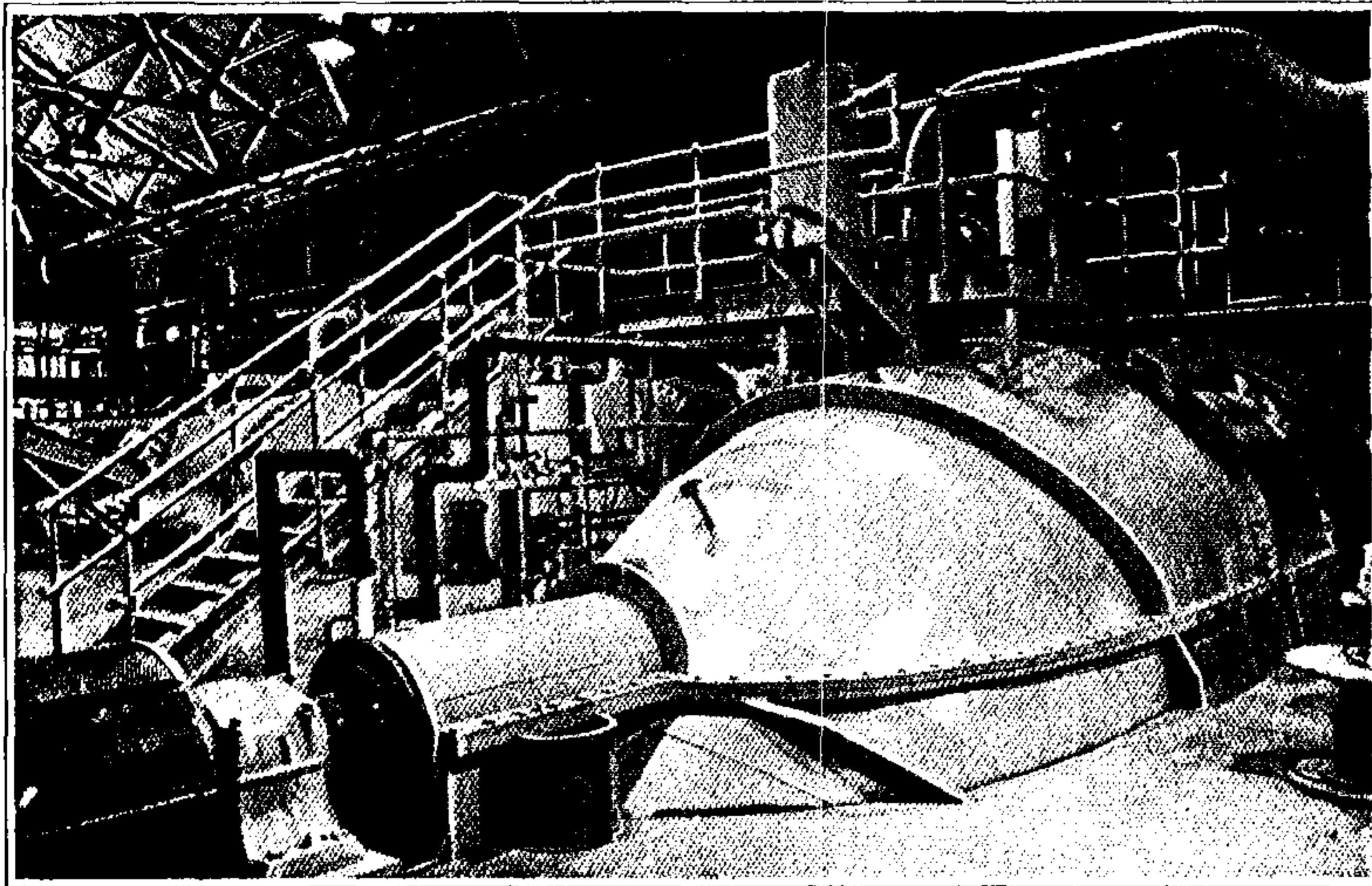
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Year ended December 31, 2001

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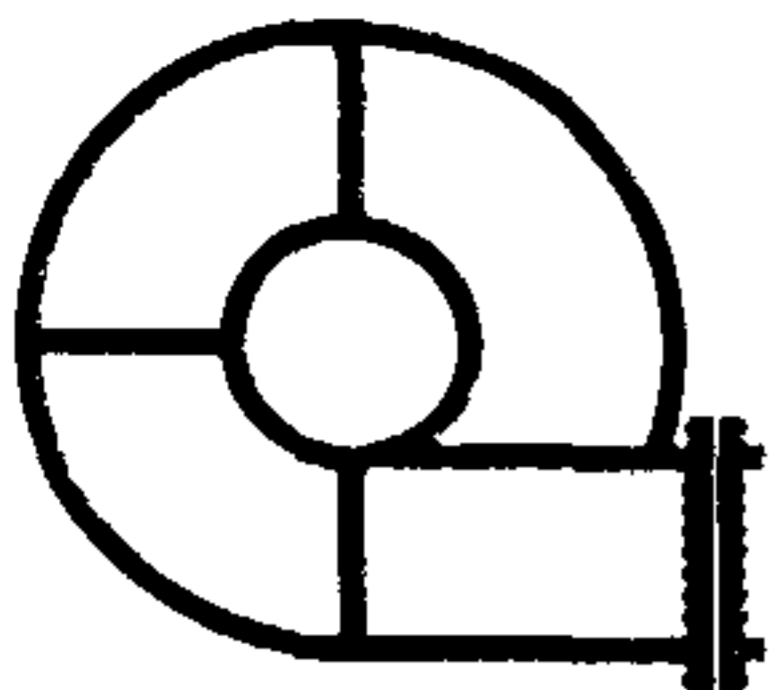
Two new pumps are being added to Drainage Pumping Station No. 1, and the station's discharge basin is being greatly enlarged. The work is part of SELA, the Southeast Louisiana Urban Flood Control Program.

This 1930 photo of Drainage Pumping Station No. 1 shows work to enlarge the station and construction of the 16,000-foot-long Washington-Palmetto Canal, considered the "largest in the world."



# INTRODUCTORY SECTION





**"RE-BUILDING THE CITY'S WATER SYSTEMS FOR THE 21<sup>st</sup> CENTURY"**

## **Sewerage & Water Board OF NEW ORLEANS**

MARC H. MORIAL, *President*  
HENRY A. DILLON, JR., *President Pro-Tem*

625 ST. JOSEPH STREET  
NEW ORLEANS, LA., 70165 • 585-2000  
[www.swbnola.org](http://www.swbnola.org)

April 2, 2002

### **TO: THE HONORABLE PRESIDENT AND MEMBERS OF THE SEWERAGE AND WATER BOARD OF NEW ORLEANS**

We are pleased to present the Comprehensive Annual Financial Report of the Sewerage and Water Board of New Orleans for the year ended December 31, 2001. Responsibility for both the accuracy of the data and the completeness and fairness of the presentation, including all disclosures, rest solely with the Sewerage and Water Board. It is our belief that the data, as presented, is accurate in all material aspects and is presented in a manner designed to fairly set forth the financial position, results of operations, and cash flows of the Board's Enterprise and Pension Trust Funds. All disclosures necessary to enable the reader to gain an understanding of the Sewerage and Water Board's financial activities have been included.

The Comprehensive Annual Financial Report is presented in four (4) major sections: Introductory, Financial, Statistical and Supplemental. The Introductory Section includes the transmittal letter and listings of the officers, members and committees of the Board of Directors. This section also includes the Board's organizational chart and a reproduction of the 2000 Certificate of Achievement for Excellence in Financial Reporting awarded by the Government Finance Officers Association. The Financial Section includes the independent auditors' report, along with the general purpose financial statements and the accompanying notes. The combined and individual fund statements for the Enterprise and Pension Trust Funds are included. Required supplementary information is also included. The Statistical Section includes selected financial and demographic information, generally in a multi-year presentation. Additional information relative to the Sewerage and Water Board's operations is included in a Supplemental Section.

The Sewerage and Water Board meets the criteria for classification as an "other stand-alone government" as described in Governmental Accounting Standards Board Statement No. 14. The reporting entity includes the Enterprise Fund and the Pension Trust Fund. The Enterprise Fund is composed of three (3) independent systems: Water, Sewerage and Drainage.

Sewerage and Water Board of New Orleans is a political subdivision created in 1899 by Louisiana State Statutes. The Board is charged with construction, operation, and maintenance of Water, Sewerage and Drainage Systems for the City of New Orleans. By agreement, approximately 2,550 acres of adjoining Jefferson Parish is served by the Board's drainage facilities for which Jefferson Parish pays its pro rata share of expenses. In addition, the Board provides sewerage services to Jefferson Parish businesses the majority of which are restaurants located in the West End neighborhood near the Lakefront. Additionally, the Board provides water and sewerage services to the Plaquemines Parish Industrial Park. The Sewerage and Water Board was established as a "special board" operating independently of city government. The Mayor of New Orleans serves as the President of the Board of Directors which is composed of three (3) representatives of the City Council, two (2) representatives of the Board of Liquidation, City Debt and seven (7) appointees as designated by the State statutes.

## ECONOMIC CONDITION AND OUTLOOK

The Board's service area includes the Civil Parish of Orleans in the state of Louisiana and covers 364 square miles. Based on the 2000 census, the population of Orleans Parish was 484,674. Major industries include tourism, oil and gas, transportation, health and other services, such as legal, education and entertainment.

According to the January 2002 issue of the Metropolitan Report, Economic Indicators for the New Orleans Area (UNO Report), published by the Division of Business and Economic Research, University of New Orleans, the New Orleans economy gained about 925 new jobs from the third quarter of 2000 to the third quarter of 2001, an increase of 0.1%. The largest gains were in eating and drinking establishments (3.3%), hotel services (+2.3%) and food and kindred products (+2.3%).

The population in the New Orleans metropolitan area edged up slightly from the third quarter of 2000 to the third quarter of 2001. The Louisiana oil and gas rig count fell 3.1% from the second to the third quarter of 2001, but was 6.8% higher than the third quarter of 2000. Both oil and natural gas production edged up slightly over the fourth quarter ending with the third quarter of 2001. Mining sector employment grew by 235 jobs, an increase of 1.9% over the third quarter of 2000. Employment in petroleum refining edged up by 66 jobs, an increase of 1.9%.

The tourism sector was hit hard by the slump in the national economy and the terrorist attacks of September 11, 2001. The hotel/motel sales, fell by \$87 million to \$125.4 million, a drop of 17.4%. The hotel occupancy rate was down almost 9% to 59.1%. The hotel room rate was 22.5% less than the second quarter of 2001 and 2.5% less than a year earlier. The number of people deplaning at Louis Armstrong International airport was down by 6.3%. Convention bookings were down by 4.2% in the third quarter of 2001 compared to the third quarter of 2000. Employment in hotel services grew by 2.3% in the four quarters ending with the third quarter of 2001. Employment in restaurants and bars jumped by 3.3% as well.

## MAJOR INITIATIVES

**For the year:** The Board budgeted approximately \$177 million for capital improvements in 2001. Highlights of this program included:

- Water:** Continued master planning for advanced water treatment for both the Algiers and Carrollton Water Purification Plants. Continued program of rehabilitation of water filters. Began the search for a consultant to develop a water distribution system, hydraulic module. Continued its water line replacement program in conjunction with the City of New Orleans Streets Improvement Program.
- Sewerage:** Work continues on the \$499.8 million city-wide sewer rehabilitation program. The Lakeview area project was completed, and the capital cost totaled \$21.4 million. The completed Gentilly area capital improvement work totaled \$6.1 million. The capital project work in the Carrollton area is under design. The initial phase of the city-wide sewer capacity upgrade program of pump stations and force mains is under design as well. The Mid City Basin Sewer System Evaluation Study (SSES) was completed and the Ninth (9th) Ward

Basin SSES was started. In the Central Business District (CBD), French Quarter Area, an additional \$3.7 million of capital projects was completed in 2001.

Congress approved federal grant funding for 2002, the sixth in anticipated series of grants from the Environmental Protection Agency (EPA) for planning, design, construction, and rehabilitation of the sanitary sewer system. This grant award was \$2,000,000 and must be matched by approximately \$1,636,364 of Board funds.

**Drainage:** The expansion of Drainage Pumping Station #1 work is approximately 99% complete. Other Southeast Louisiana Flood Control Projects, 75% funded by the Corps of Engineers are complete as follows: The Napoleon Avenue Canal is 59% complete and on schedule. The South Claiborne Avenue (Nashville Avenue to Jena Street) Canal is 89% complete, and the South Claiborne Avenue (Jena Street to Louisiana Avenue) work is 45% complete. The Dwyer Road Drainage Pump Station is 18% complete, and the Dwyer Road Discharge Tubes and Outfall Canal are 13% complete. The Hollygrove #1 Railroad Right-of-Way Canal from Monticello to Eagle Streets is 41% complete, and the Hollygrove # 2 Canal between Forshey and Dublin Streets is 28% complete. The Pritchard Street Drainage Pump Station is 20% complete and on schedule.

A five (5) year capital program budget of \$1,150,142,000 was approved by the Sewerage and Water Board in December 2001. The approved amount for Drainage projects was \$486,836,000, of that amount \$263,738,000 is *participation by others*.

### FINANCIAL INFORMATION

Management of the Sewerage and Water Board is responsible for designing and maintaining internal control sufficient to safeguard the Board's assets against loss, theft or misuse and to ensure the reliability of financial records for preparing financial statements in conformity with generally accepted accounting principles. The internal control is designed to provide reasonable, but not absolute assurance that these goals are met. The concept of reasonable assurance recognizes that: (1) the cost of internal control should not exceed the benefits to be derived and (2) the valuation of costs and benefits required the exercise of judgment by management.

The Enterprise Fund's Water and Sewerage Systems are financed by user fees. The unique characteristics of the services provided by the Drainage System of New Orleans requires the use of Enterprise Fund accounting in order to obtain a meaningful measure of the cost of providing the services and capital maintenance. Revenues for Drainage are financed by taxes which are considered operating revenues. Revenues from the three- (3) mill, six- (6) mill and nine- (9) mill ad valorem taxes, which are restricted exclusively for drainage services, finance the Drainage System. These ad valorem taxes provide the major operating revenues of the drainage system.

**Budgetary Control:** The Sewerage and Water Board maintains an internal budgetary control through the preparation and monitoring of an annual operating and capital budget for the Water, Sewerage and Drainage Funds. Monthly budget reports are provided to department level managers to assist them in their fiscal responsibilities.

**General Operations:** There was a 1.1% decrease in total system operating revenues from 2000 to 2001 primarily due to a 5.2% decrease in water revenue attributed to reduced customer consumption. The decrease was partially offset by increases in sewerage and drainage revenues due to increased sewer rates and modest increases in the Board's various property tax millage collections. Operating expenses increased by 3.9% primarily due to increased depreciation resulting from significant additional property and equipment placed in service during 2000 and 2001. Also general and administrative expenses increased due to increased consulting fees incurred in connection with a privatization request for proposals (RFP). The increased expenses were partially offset by the reduced provision for general liability claims.

**Pension Trust Fund Operations:** The contributions to the Pension Trust Funds are based on annual actuarial valuations.

**Debt Administration:** The Board of Liquidation, City Debt has responsibility for the administration of the Board's debt. Drainage debt services payments are supported by ad valorem tax collections, while user fees are used to provide debt services for the Water and Sewerage System bonds. The Sewerage and Water Board's bonds outstanding as of December 31, 2001 totaled \$155,020,000.

**Cash Management:** Cash temporarily idle in the Enterprise Fund during the year was invested in commercial bank certificates of deposit, repurchase agreements, and U. S. Treasury Bills. Effective January 1998, investments were recorded at fair value. Investment income on these idle funds was \$8,089,943.

**Risk Management:** The Sewerage and Water Board uses both insured and retained risk programs to manage exposures to loss. The Board administers self-insured programs for property and automobile liability exposures. Also, retained risk programs for general liability and workers' compensation losses and claims are administered by the Board. Improved claims management and administration have facilitated more timely and better decision making on a case-by-case basis. The updating of risk management procedures and information systems is ongoing with the objective of improving loss control efforts and risk assessment capabilities.

**Other Information:** State Statutes and covenants governing outstanding bond issues require an annual audit of the Board's financial records by independent certified public accountants. The accounting firms of Postlethwaite & Netterville and Bruno & Tervalon were selected by the Board to perform this audit. The independent auditors' report on the general-purpose financial statements is included in the Financial Section of the report.

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the Sewerage and Water Board of New Orleans for its Comprehensive Annual Financial Report for the fiscal year ended December 31, 2000. The Certificate of Achievement is a prestigious national award-recognizing conformance with the highest standards for preparation of state and local government financial reports.

In order to be awarded a Certificate of Achievement, a government unit must publish an easily readable and efficiently organized comprehensive annual financial report whose contents conform to program standards. Such CAFR must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one (1) year only. The Sewerage and Water Board of New Orleans has received a Certificate of Achievement for the last nineteen (19) years. We believe

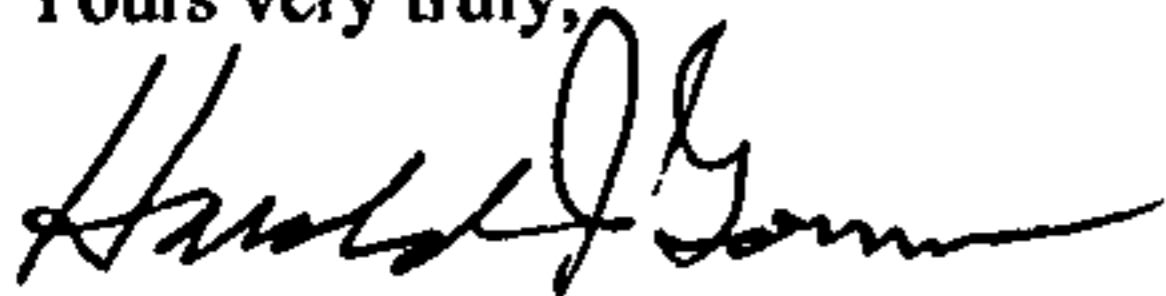
our current report continues to conform to the Certification of Achievement Program requirements and we are submitting it to GFOA.

For the fiscal year 2002, the Board will implement GASB 33, Accounting and Financial Reporting for Nonexchange Transactions, and GASB 34, Basic Financial Statements and Management's Discussion and Analysis for State and Local Governments. The Board is preparing to implement these major statements and currently foresees no major issues regarding implementation.

**Acknowledgments:** The Comprehensive Annual Financial Report was prepared by the dedicated staff of the Board's Management Services Administration, particularly the Accounting and Printing Departments.

We also wish to thank the members of the Board for their interest and support in our efforts to achieve greater fiscal efficiency and accountability.

Yours very truly,



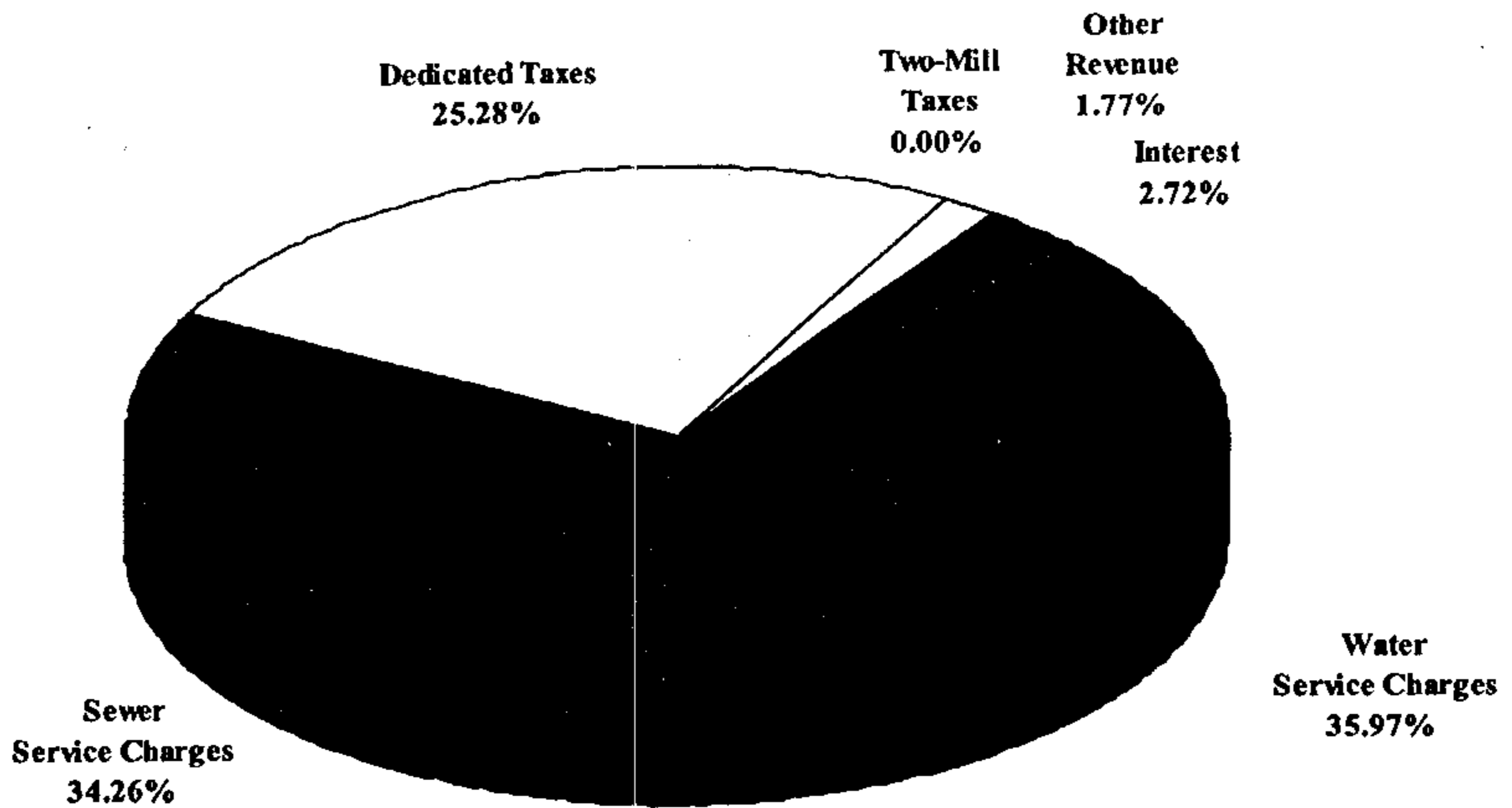
Harold J. Gorman  
Executive Director



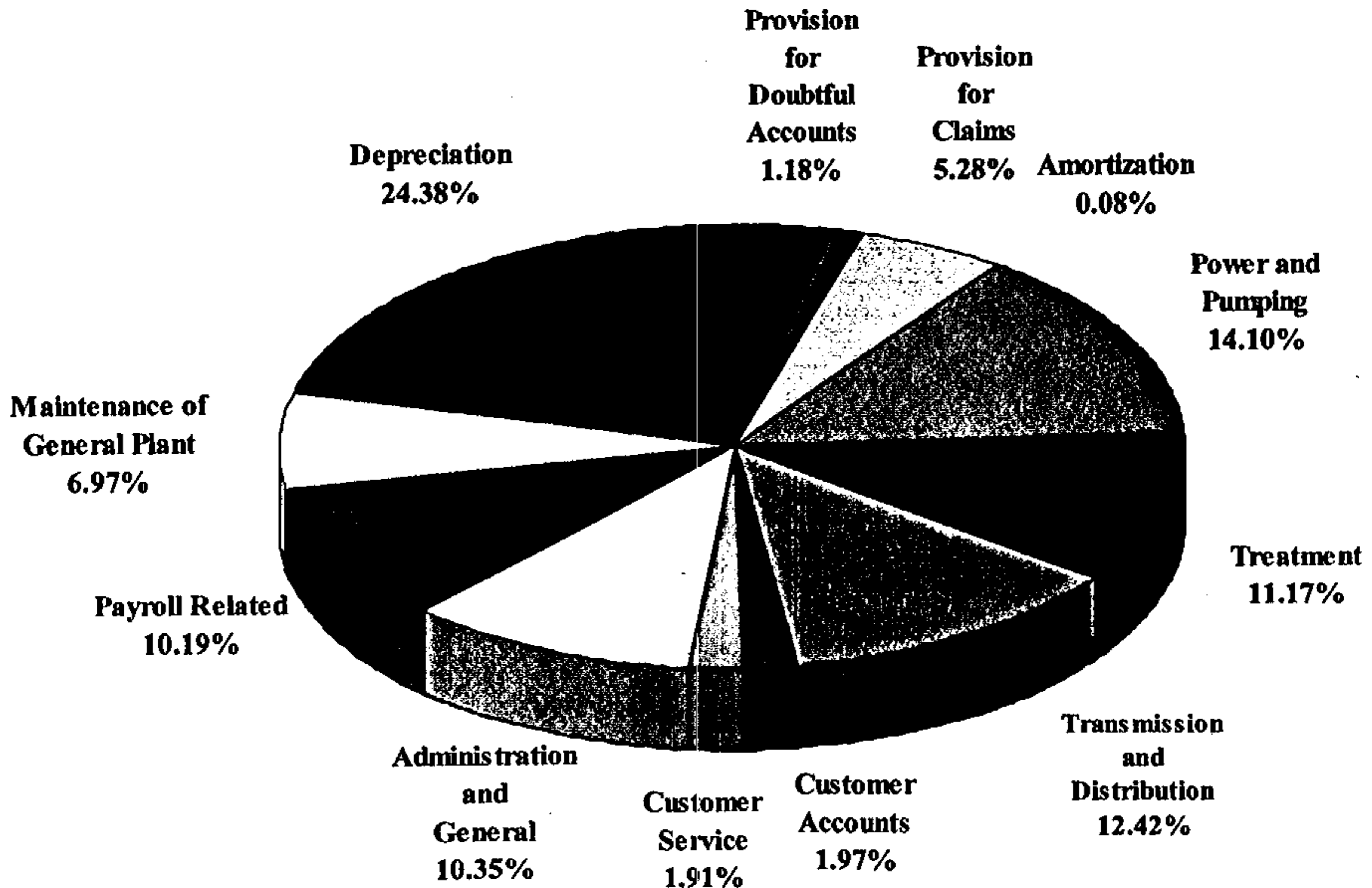
Ethel H. Williams  
Utility Financial Administrator

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# 2001 Revenues



# 2001 Expenses



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# Certificate of Achievement for Excellence in Financial Reporting

Presented to

Sewerage and Water  
Board of New Orleans,  
Louisiana

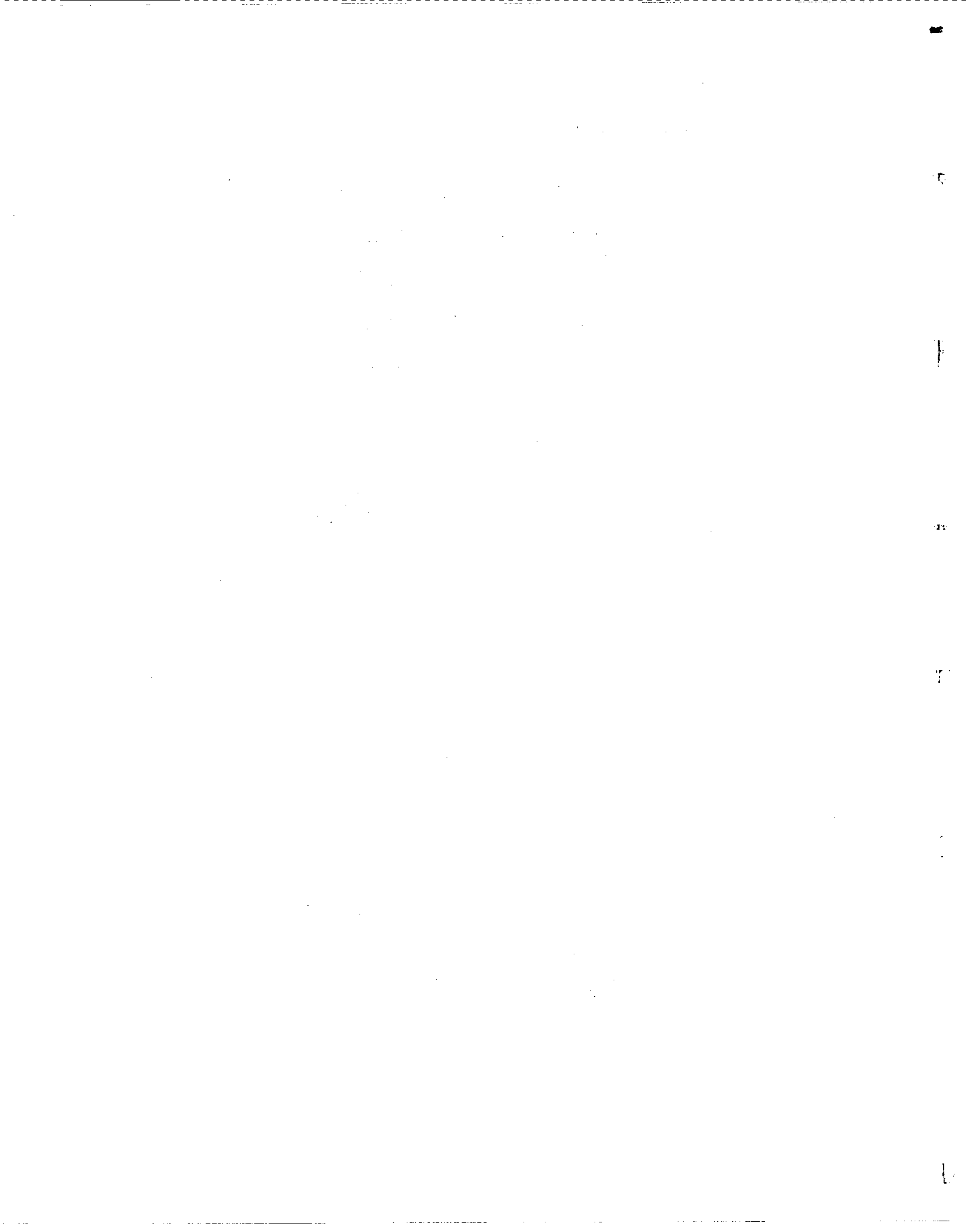
For its Comprehensive Annual  
Financial Report  
for the Fiscal Year Ended  
December 31, 2000

A Certificate of Achievement for Excellence in Financial Reporting is presented by the Government Finance Officers Association of the United States and Canada to government units and public employee retirement systems whose comprehensive annual financial reports (CAFRs) achieve the highest standards in government accounting and financial reporting.



*Imelda Aruete*  
President

*Jeffrey L. Esser*  
Executive Director



**OFFICERS**  
**of the**  
**SEWERAGE AND WATER BOARD**  
**OF NEW ORLEANS**

---

**December 31, 2001**

**MARC H. MORIAL** ..... **President**  
**Mayor, City of New Orleans**

**HENRY A. DILLON, JR.** ..... **President Pro Tem**

**HAROLD J. GORMAN** ..... **Executive Director**

**MARCIA A. ST. MARTIN** ..... **Deputy Director**

**G. JOSEPH SULLIVAN** ..... **General Superintendent**

**CHARLES G. McKINNEY** ..... **Deputy General Superintendent**

**JOHN D. LAMBERT, JR.** ..... **Special Counsel**

**MEMBERS OF  
SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**December 31, 2001**

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**MARC H. MORIAL ..... Mayor**

**EDDIE L. SAPIR ..... Councilmember-at-Large**

**JAMES M. SINGLETON ..... Councilmember-at-Large**

**TROY A. CARTER ..... Councilman District C**

**SIDNEY H. EVANS, JR. .... Member - Board of Liquidation, City Debt**

**NORMA E. GRACE ..... Member - Board of Liquidation, City Debt**

**PENELOPE RANDOLPH ..... Councilmanic District A**

**WILLIAM F. GRACE JR. .... Councilmanic District B**

**RONALD C. GUIDRY, SR. .... Councilmanic District C**

**STAFFORD R. TUREAUD, SR. .... Councilmanic District D**

**HENRY A. DILLON, JR. .... Councilmanic District E**

**BENJAMIN L. EDWARDS, SR. .... At-Large Member**

**BARBARA LAMONT ..... At-Large Member**

**COMMITTEES  
OF THE  
SEWERAGE AND WATER BOARD  
OF  
NEW ORLEANS  
December 31, 2001**

---

**EXECUTIVE COMMITTEE**

HENRY A. DILLON, JR. - Chairperson

BENJAMIN L. EDWARDS, SR.  
EDDIE L. SAPIR

JAMES M. SINGLETON  
MARC H. MORIAL

**FINANCE COMMITTEE**

JAMES M. SINGLETON - Chairperson

TROY A. CARTER  
SIDNEY H. EVANS JR.

EDDIE L. SAPIR  
STAFFORD R. TUREAUD, SR.

**COMMITTEE ON SEWERAGE AND WATER**

EDDIE L. SAPIR - Chairperson

HENRY A. DILLON, JR.  
NORMA E. GRACE

RONALD C. GUIDRY, SR.  
BARBARA LAMONT

**DRAINAGE COMMITTEE**

MARC H. MORIAL - Chairperson

BENJAMIN L. EDWARDS, SR.  
WILLIAM F. GRACE, JR.

PENELOPE RANDOLPH  
STAFFORD R. TUREAUD, SR.

**PENSION COMMITTEE**

HENRY A. DILLON, JR. - Chairperson

SIDNEY H. EVANS, JR.  
NORMA E. GRACE  
RONALD C. GUIDRY, SR.  
JAMES M. SINGLETON

PATRICIA W. CAMPBELL  
WARREN J. LAWRENCE  
HOWARD E. NOLAND  
MARVIN R. RUSSELL, JR.

PALMER & CAY CONSULTING GROUP, Actuary

**COMMITTEE ON SEWERAGE AND WATER BOARD OPERATIONS**

BENJAMIN L. EDWARDS - Chairperson

TROY A. CARTER  
WILLIAM F. GRACE, JR.

BARBARA LAMONT  
PENELOPE RANDOLPH

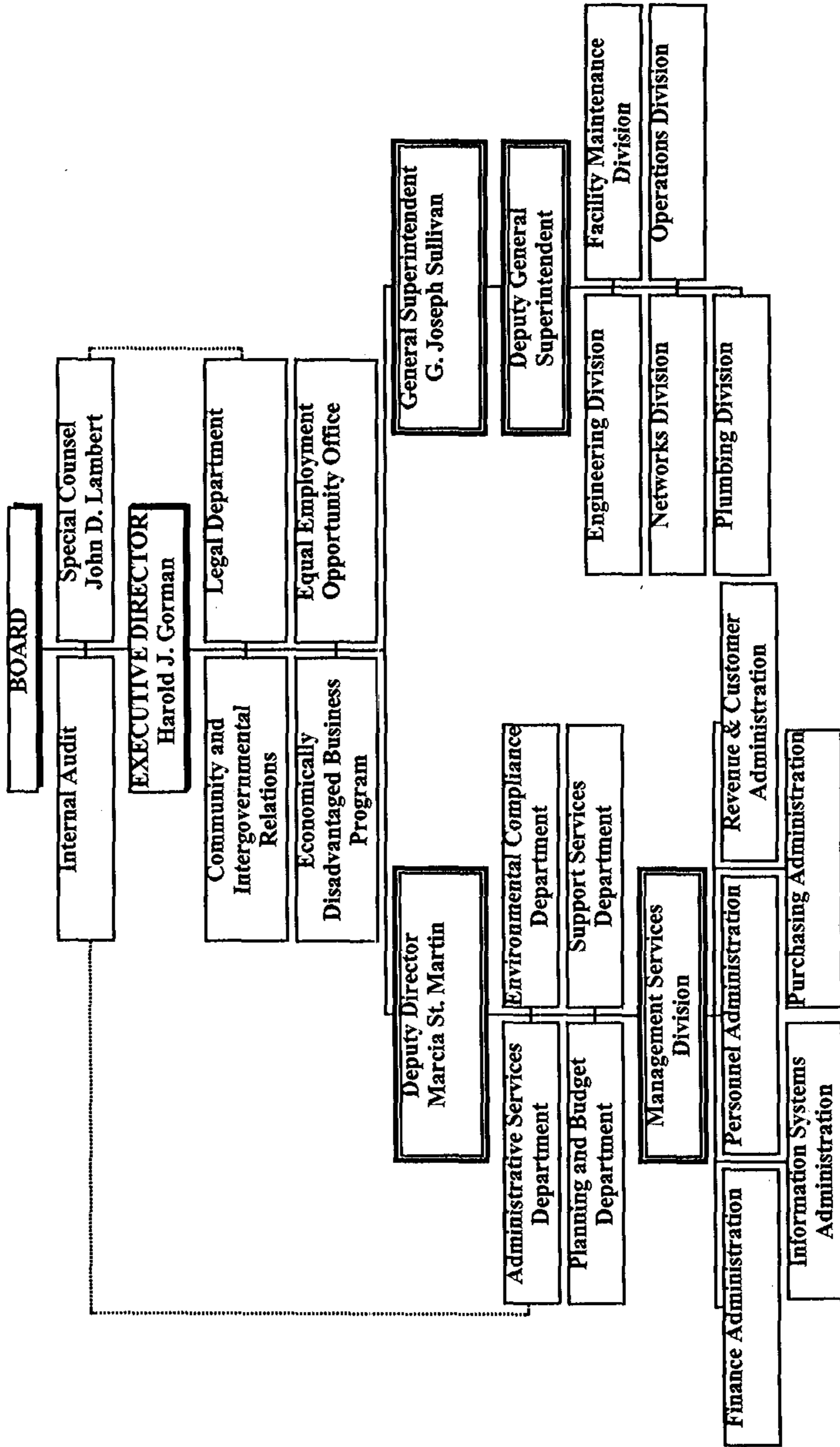
**PLUMBING CONFERENCE COMMITTEE**

STAFFORD R. TUREAUD, SR. - Chairperson

JAMES J. ARONLD  
RONNIE CROSBY  
BENJAMIN L. EDWARDS, SR.

JAMES C. FINLEY  
RONALD C. GUIDRY, SR.  
G. JOSEPH SULLIVAN

# SEWERAGE AND WATER BOARD OF NEW ORLEANS 2001 ORGANIZATION CHART



**THE SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**DIVISION HEADS OF DEPUTY DIRECTOR**

December 31, 2001

**MARCIA A. ST. MARTIN**  
DEPUTY DIRECTOR

---

**ADMINISTRATIVE SERVICES DIVISION**

Ann M. Peuler

**ENVIRONMENTAL AFFAIRS DIVISION**

Gordon C. Austin

**MANAGEMENT SERVICES DIVISION**

Martin F. Comer, Jr.

**PLANNING AND BUDGET DIVISION**

Lawrence J. Federico, Jr.

**SUPPORT SERVICES DIVISION**

Howard E. Noland

**THE SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**DIVISION HEADS OF GENERAL SUPERINTENDENT**

December 31, 2001

**G. JOSEPH SULLIVAN**  
GENERAL SUPERINTENDENT

**CHARLES G. McKINNEY**  
DEPUTY GENERAL SUPERINTENDENT

---

**ENGINEERING DIVISION**

Rudolph S. St. Germain

**FACILITY MAINTENANCE DIVISION**

Glenn M. Semel

**NETWORKS DIVISION**

Eric M. Kelly

**OPERATIONS DIVISION**

John R. Huerkamp

**PLUMBING DIVISION**

James J. Arnold



**THE SEWERAGE AND WATER BOARD OF NEW ORLEANS**  
**DEPARTMENT HEADS OF MANAGEMENT SERVICES DIRECTOR**

December 31, 2001

**MARTIN F. COMER, JR.**  
**MANAGEMENT SERVICES DIRECTOR**

---

**FINANCE ADMINISTRATION**

Ethel H. Williams

**INFORMATION SYSTEMS ADMINISTRATION**

Sue D. Mitchell

**PERSONNEL ADMINISTRATION**

Kevin F. Walsh

**PURCHASING ADMINISTRATION**

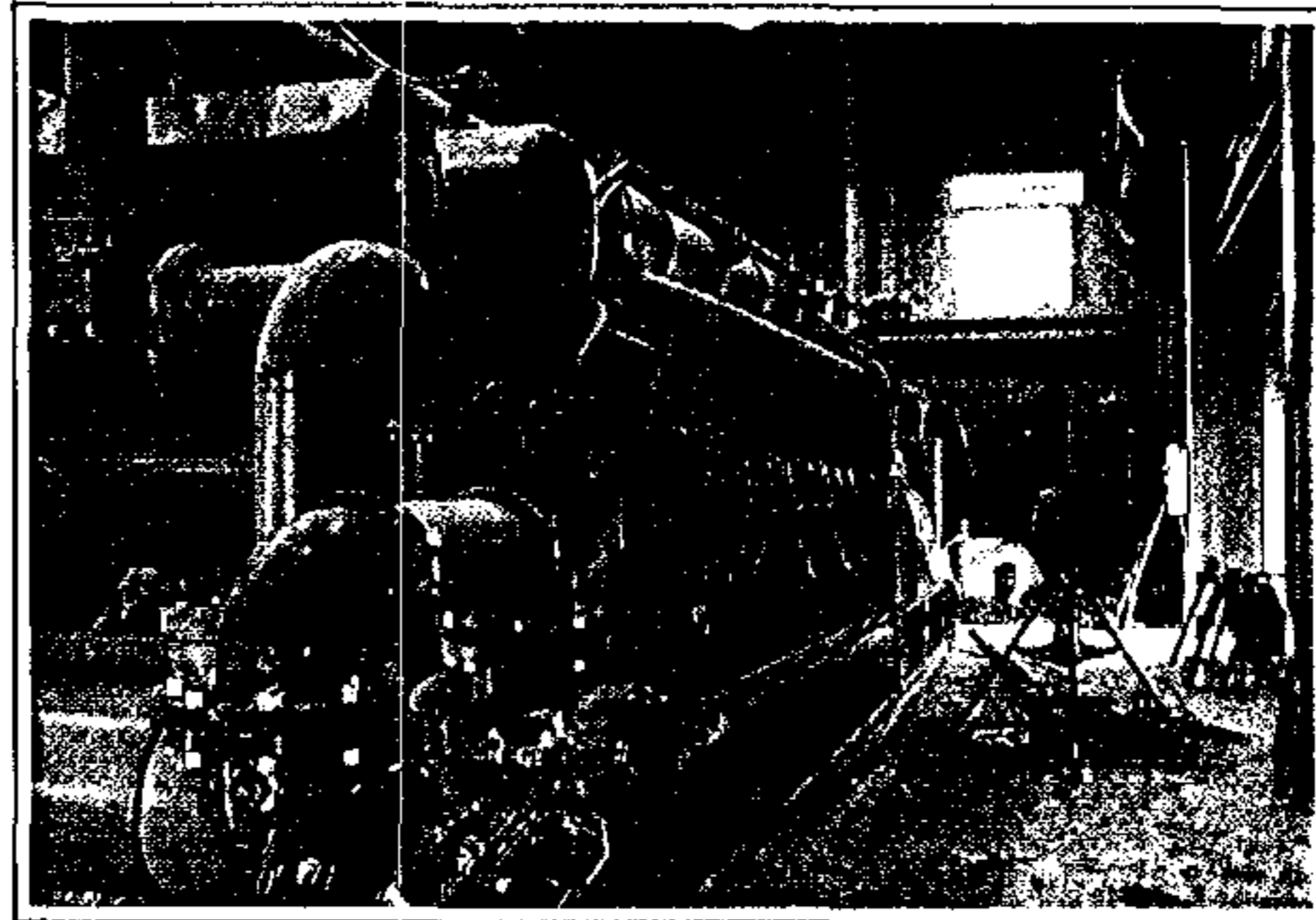
Betty W. Latino

**REVENUE AND CUSTOMER SERVICES ADMINISTRATION**

Carol W. Warren

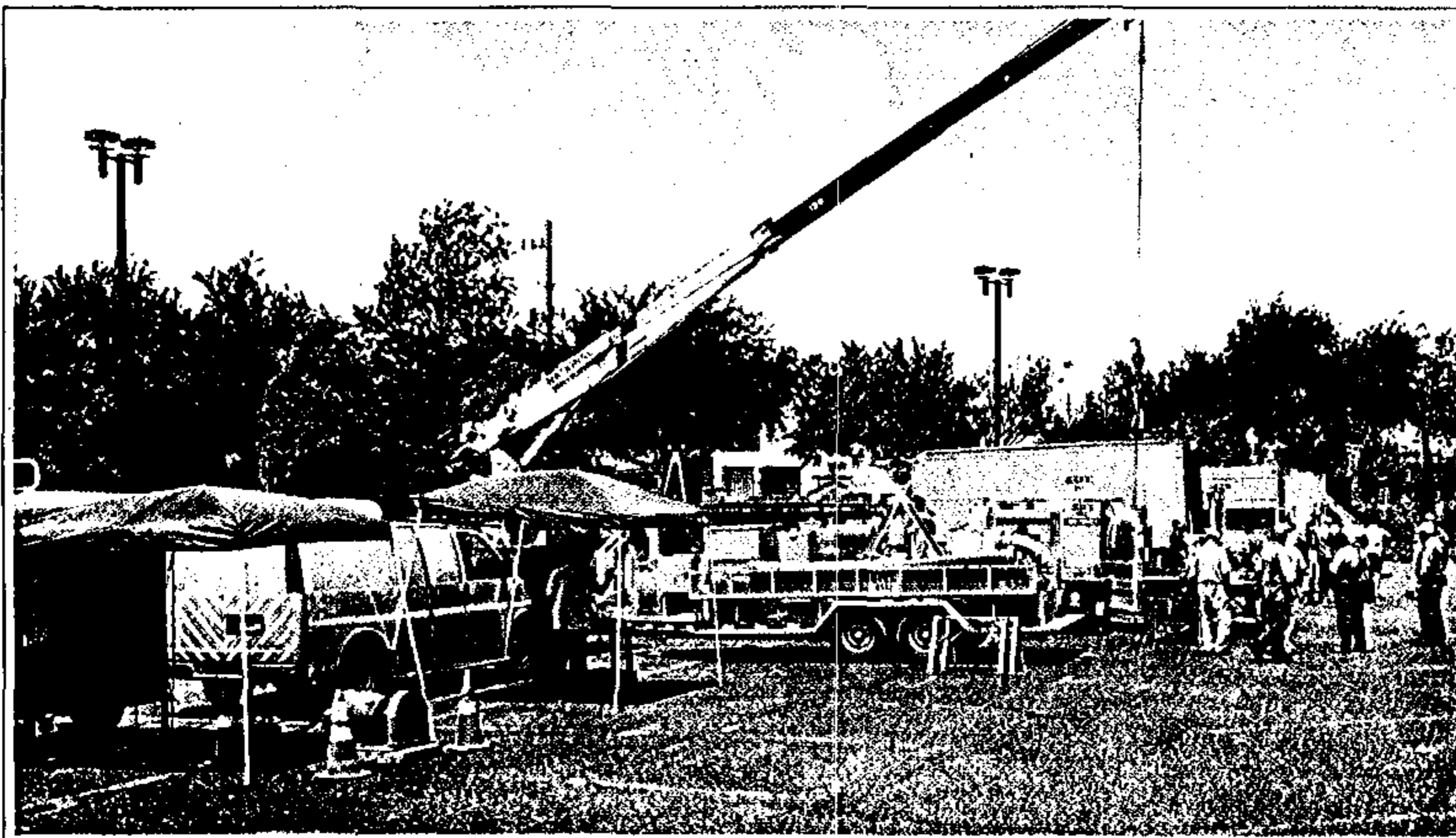
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# FINANCIAL SECTION



This 3,800-horsepower diesel engine, and another one just like it, will drive two 4,000-kilowatt generators near completion at Drainage Pumping Station No. 19 on the Industrial Canal. The \$4.6 million project, which includes housing for the engines and generators, will provide back-up power to the station in the event of an interruption of commercial power.

Each year the Sewerage and Water Board displays new equipment and technology during Public Works Week for viewing by citizens, contractors, engineers and other city agencies.





**Postlethwaite & Netterville**

A Professional Accounting Corporation  
Associated Offices in Principal Cities of the United States



## **INDEPENDENT AUDITORS' REPORT**

**Members of the Board  
Sewerage and Water Board of New Orleans:**

We have audited the accompanying general purpose financial statements of the Sewerage and Water Board of New Orleans as of and for the years ended December 31, 2001 and 2000, as listed in the table of contents. These general purpose financial statements are the responsibility of the Board's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America and *Government Auditing Standards* issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the general purpose financial statements referred to above present fairly, in all material respects, the financial position of the Sewerage and Water Board of New Orleans as of December 31, 2001 and 2000, and the results of its operations and cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America.

In accordance with *Government Auditing Standards*, we have also issued a report, dated March 28, 2002, on our consideration of the Board's internal control over financial reporting and our tests of its compliance with certain provisions of laws, regulations, contracts and grants. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* and should be read in conjunction with this report in considering the results of our audits.

The schedules of funding progress and employer contributions of the Required Supplementary Information, as listed in the table of contents, are not a required part of the general purpose financial statements, but are supplementary information required by the *Government Accounting Standards Board*, and we did not audit and do not express an opinion on such information. We have applied to the schedules of funding progress and employer contributions certain limited procedures prescribed by professional standards, which consisted principally of inquires of management regarding the methods of measurement and presentation of the schedules.

Our audits were made for the purpose of forming an opinion on the 2001 and 2000 general purpose financial statements of the Board taken as a whole. The accompanying information included in Schedules 1 through 4 is presented for purposes of additional analysis and is not a required part of the general purpose financial statements. Such information has been subjected to the auditing procedures applied in the audits of the general purpose financial statements and, in our opinion, is fairly stated, in all material respects, in relation to the general purpose financial statements taken as a whole.

The Statistical Information and Supplemental Information sections as listed in the table of contents are also presented for purposes of additional analysis and are not a required part of the general purpose financial statements of the Board. Such additional information has not been subjected to the auditing procedures applied in the audits of the general purpose financial statements, and accordingly, we express no opinion on it.

*Postlethwaite & Netterville*

*Bruno & Jervolov L.P.*

New Orleans, Louisiana.  
March 28, 2002

**GENERAL PURPOSE  
FINANCIAL STATEMENTS**

SEWERAGE AND WATER BOARD OF NEW ORLEANS

COMBINED BALANCE SHEETS - ENTERPRISE FUND AND PENSION TRUST FUND

December 31, 2001 and 2000

ASSETS	2001		2000	
	Enterprise Fund	Pension Trust Fund	Enterprise Fund	Pension Trust Fund
				Totals (Memorandum only)
Property, plant and equipment	\$ 1,464,845,626	\$ -	\$ 1,348,172,933	\$ 1,348,172,933
Less: accumulated depreciation	447,362,539	-	414,950,619	414,950,619
	<u>1,017,483,087</u>	<u>-</u>	<u>933,222,314</u>	<u>933,222,314</u>
Restricted assets:				
Capital projects	73,904,548	-	79,647,571	79,647,571
Construction funds	86,345,814	-	87,399,662	87,399,662
Debt service reserve	14,597,376	-	12,006,811	12,006,811
Customer deposits	5,579,473	-	5,360,123	5,360,123
Health insurance reserve	9,000,000	-	9,000,000	9,000,000
Debt service	3,454,568	-	3,075,868	3,075,868
Other	212,000	-	212,000	212,000
	<u>193,093,779</u>	<u>-</u>	<u>196,702,035</u>	<u>196,702,035</u>
Current assets:				
Cash	2,948,437	78,639	1,627,311	1,705,995
Investments, at fair value	-	173,695,292	-	176,659,677
Accounts receivable:				
Customers (net of allowance for doubtful accounts)	11,533,632	-	11,684,106	11,684,106
Taxes	693,191	-	634,359	634,359
Interest	488,388	1,200,516	1,192,565	2,132,043
Grants	214,529	-	217,104	217,104
Miscellaneous	1,245,677	11,206	1,250,183	1,284,170
Due from City of New Orleans, current	200,000	-	200,000	200,000
Due from enterprise fund	-	23,272	-	149,281
Inventory of supplies	6,869,065	-	6,256,139	6,256,139
Prepaid expenses	672,356	-	672,356	672,356
	<u>24,865,275</u>	<u>175,008,925</u>	<u>23,734,123</u>	<u>201,595,230</u>
Total current assets	893,586	-	998,400	998,400
Due from City of New Orleans, less current portion				
Other assets:				
Bond issue costs	1,073,541	-	998,015	998,015
Deposits	51,315	-	51,315	51,315
Net pension asset	7,834,855	-	6,148,010	6,148,010
Total other assets	<u>8,959,711</u>	<u>-</u>	<u>7,197,340</u>	<u>7,197,340</u>
Total assets	\$ 1,245,300,438	\$ 175,008,925	\$ 1,161,854,212	\$ 1,339,715,319

(Continued)

SEWERAGE AND WATER BOARD OF NEW ORLEANS  
 COMBINED BALANCE SHEETS - ENTERPRISE FUND AND PENSION TRUST FUND  
 (Continued)

	2001		2000	
	Enterprise Fund	Pension Trust Fund	Enterprise Fund	Pension Trust Fund
				(Memorandum only)
<b>FUND EQUITY AND LIABILITIES</b>				
<b>Fund equity:</b>				
Contributed capital				
Retained earnings-revenue reinvested:				
Property, plant and equipment	690,344,868	-	683,384,076	683,384,076
Appropriated for capital projects	73,904,548	-	79,647,571	79,647,571
Reserved for bond debt service	18,051,944	-	15,082,679	15,082,679
Total retained earnings	782,301,360	-	778,114,326	778,114,326
Plan net assets available for pension benefits	-	173,358,958	-	176,569,750
Total fund equity	1,015,723,811	173,358,958	964,244,949	1,140,814,699
<b>Liabilities:</b>				
<b>Long-term liabilities:</b>				
Claims payable	12,882,429	-	6,536,244	6,536,244
Bonds payable (net of current maturities)	148,285,000	-	122,300,000	122,300,000
	161,167,429	-	128,836,244	128,836,244
<b>Current liabilities (payable from current assets):</b>				
Accounts payable	17,473,006	-	15,747,308	15,747,308
Due to City of New Orleans	231,636	-	221,488	221,488
Retainers and estimates payable	533,278	-	265,487	265,487
Due to pension trust fund	23,272	-	149,285	149,285
Accrued salaries	1,316,709	-	1,190,790	1,190,790
Accrued vacation and sick pay	9,711,873	-	10,278,580	10,278,580
Claims payable	22,881,841	-	27,502,646	27,502,646
DROP participants payable	-	1,649,967	-	1,291,357
Other liabilities	33,439	-	208,022	208,022
	52,205,054	1,649,967	55,563,606	1,291,357
Total current liabilities	701,678	-	574,066	-
Total current liabilities (payable from restricted assets):	6,735,000	-	5,285,000	-
Accrued interest	3,187,993	-	1,990,224	-
Bonds payable	5,579,473	-	5,360,123	-
Retainers and estimates payable	16,204,144	-	13,209,413	-
Customer deposits	68,409,198	1,649,967	68,773,019	1,291,357
Total current liabilities	229,576,627	1,649,967	197,609,263	1,291,357
Total liabilities	1,245,300,438	175,008,925	1,161,854,212	1,339,715,319
Total fund equity and liabilities	\$ 1,015,723,811	\$ 173,358,958	\$ 964,244,949	\$ 1,140,814,699

See accompanying notes to financial statements.



SEWERAGE AND WATER BOARD OF NEW ORLEANS

STATEMENTS OF REVENUES AND EXPENSES AND CHANGES IN  
RETAINED EARNINGS-NET REVENUE REINVESTED

ENTERPRISE FUND

For the years ended December 31, 2001 and 2000

	<u>2001</u>	<u>2000</u>
<b>Operating revenues:</b>		
Sales of water and delinquent fees	\$ 52,220,820	\$ 55,064,217
Sewerage service charges	49,738,713	48,767,445
Three-mill tax	10,401,634	10,282,702
Six-mill tax	10,531,750	10,411,336
Nine-mill tax	15,780,366	15,600,065
Plumbing inspection and license fees	<u>213,836</u>	<u>304,774</u>
<b>Total revenues</b>	<u>138,887,119</u>	<u>140,430,539</u>
<b>Operating Expenses:</b>		
Power and pumping	19,886,007	19,965,930
Treatment	15,749,585	13,325,272
Transmission and distribution	17,517,122	19,586,824
Customer accounts	2,771,609	2,846,956
Customer service	2,687,794	2,491,081
Administration and general	14,593,405	13,022,837
Payroll related	14,368,516	13,613,390
Maintenance of general plant	9,824,994	9,777,960
Depreciation	34,378,585	28,467,453
Amortization	124,473	114,173
Provision for doubtful accounts	1,661,267	1,071,194
Provision for claims	<u>7,452,510</u>	<u>11,379,397</u>
<b>Total operating expenses</b>	<u>141,015,867</u>	<u>135,662,467</u>
<b>Net operating revenue (loss)</b>	<u>(2,128,748)</u>	<u>4,768,072</u>
<b>Non-operating revenues:</b>		
Two-mill tax	10,726	6,348
Investment income	3,956,010	6,087,145
Other revenue	<u>2,349,046</u>	<u>2,508,502</u>
<b>Total non-operating revenues</b>	<u>6,315,782</u>	<u>8,601,995</u>
<b>Revenue reinvested</b>	4,187,034	13,370,067
<b>Retained earnings - revenue invested:</b>		
Beginning of year	<u>778,114,326</u>	<u>764,744,259</u>
End of year	<u>\$ 782,301,360</u>	<u>\$ 778,114,326</u>

See accompanying notes to financial statements.

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**STATEMENTS OF CASH FLOWS**

**ENTERPRISE FUND**

For the years ended December 31, 2001 and 2000

	<u>2001</u>	<u>2000</u>
<b>Cash flows from operating activities</b>		
Cash received from customers	\$ 100,672,724	\$ 101,013,598
Property taxed received	36,654,918	35,812,585
Cash payments to suppliers for goods and services	(56,543,458)	(46,934,367)
Cash payments to employees for services	(47,798,347)	(49,211,346)
Other revenue	2,349,046	2,508,502
	<hr/>	<hr/>
Net cash provided by operating activities	35,334,883	43,188,972
	<hr/>	<hr/>
<b>Cash flows from noncapital financing activities - proceeds from property taxes</b>	10,726	6,348
	<hr/>	<hr/>
<b>Cash flows from capital and related financing activities</b>		
Acquisition and construction of capital assets	(82,197,537)	(48,114,389)
Proceeds of bond issue	32,720,000	47,100,000
Bond issuance costs	(200,000)	(334,810)
Principal payments on bonds payable	(5,285,000)	(5,635,000)
Interest paid on bonds payable	(6,600,151)	(5,119,094)
Capital contributed by developers and federal grants	14,422,342	12,050,385
	<hr/>	<hr/>
Net cash used in capital and related financing activities	(47,140,346)	(52,908)
	<hr/>	<hr/>
<b>Cash flows from investing activities</b>		
Payments for purchase of investments	(502,967,155)	(438,070,014)
Proceeds from maturities of investments	506,181,234	383,383,393
Investments income	9,997,589	10,221,494
	<hr/>	<hr/>
Net cash provided by (used in) investing activities	13,211,668	(44,465,127)
	<hr/>	<hr/>
Net increase (decrease) in cash	1,416,931	(1,322,715)
	<hr/>	<hr/>
Cash at the beginning of the year	1,871,172	3,193,887
	<hr/>	<hr/>
Cash at the end of the year	\$ 3,288,103	\$ 1,871,172
	<hr/>	<hr/>
<b>Reconciliation of cash and restricted cash (note 2)</b>		
Current assets - cash	2,948,437	1,627,311
Restricted assets -cash	339,666	243,861
	<hr/>	<hr/>
Total cash	\$ 3,288,103	\$ 1,871,172
	<hr/>	<hr/>

(Continued)

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**STATEMENTS OF CASH FLOWS**

**ENTERPRISE FUND**

For the years ended December 31, 2001 and 2000

	<u>2001</u>	<u>2000</u>
Reconciliation of net operating revenue to net cash provided by operating activities is as follows		
Net operating revenue (loss)	\$ (2,128,748)	\$ 4,768,072
Add: Other revenue	2,349,046	2,508,502
	<u>220,298</u>	<u>7,276,574</u>
Adjustments to reconcile net operating revenue (loss) to net cash provided by operating activities:		
Depreciation	34,378,585	28,467,453
Provision for claims	7,452,510	11,379,397
Provision for doubtful accounts	1,661,267	1,071,194
Amortization	124,473	114,173
Change in operating assets and liabilities:		
Increase in customer and other receivable	(1,410,979)	(2,996,577)
Increase in taxes receivable	(58,832)	(481,518)
Increase in inventory	(612,926)	(649,619)
Decrease in prepaid expenses	-	58,666
Increase in net pension asset	(1,686,845)	(3,372,874)
Increase in accounts payable	1,725,698	6,526,411
Increase (decrease) in accrued salaries and accrued vacation and sick pay	(566,801)	117,223
Decrease in other liabilities	(5,891,565)	(4,321,531)
	<u>\$ 35,334,883</u>	<u>\$ 43,188,972</u>

**Noncash investing, capital and financing activities:**

The acquisition and construction of capital assets and capital contributed by developers and federal grants do not include non-cash amounts resulting from the construction by the U. S. Corps of Engineers of \$ 32,876,567 and \$29,448,244 in drainage projects during the years ended December 31, 2001 and 2000, respectively.

In addition, the recognized unrealized loss on investments in 2001 and 2000 of \$709,333 and \$208,577, respectively.

See accompanying notes to financial statements.

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**STATEMENTS OF CHANGES IN PLAN NET ASSETS**

**PENSION TRUST FUND**

For the years ended December 31, 2001 and 2000

	<u>2001</u>	<u>2000</u>
<b>Additions:</b>		
<b>Contributions:</b>		
Employee contributions	\$ 1,040,680	\$ 1,053,495
Employer contributions	4,548,324	4,728,622
City annuity and other transfers in	869,528	715,426
<b>Total contributions</b>	<u>6,458,532</u>	<u>6,497,543</u>
<b>Investment income:</b>		
Interest income	5,092,350	4,796,002
Dividend income	1,565,255	1,917,909
Net depreciation	(8,254,471)	(862,108)
	<u>(1,596,866)</u>	<u>5,851,803</u>
Less investment expense	(81,105)	(193,559)
	<u>(1,677,971)</u>	<u>5,658,244</u>
<b>Net investment income (loss)</b>		
	<u>(1,677,971)</u>	<u>5,658,244</u>
<b>Total additions</b>	<u>4,780,561</u>	<u>12,155,787</u>
<b>Deductions:</b>		
Benefits	(6,634,821)	(6,204,318)
Employee refunds	(290,494)	(238,572)
Employee contributions to DROP	(1,034,682)	(952,992)
Interest on DROP investments	(31,356)	(24,324)
	<u>(7,991,353)</u>	<u>(7,420,206)</u>
<b>Total deductions</b>		
	<u>(7,991,353)</u>	<u>(7,420,206)</u>
<b>Net increase (decrease) in plan assets</b>	(3,210,792)	4,735,581
<b>Plan net assets at beginning of year</b>	<u>176,569,750</u>	<u>171,834,169</u>
<b>Plan net assets at end of year</b>	<u>\$ 173,358,958</u>	<u>\$ 176,569,750</u>

See accompanying notes to financial statements.

**NOTES TO GENERAL PURPOSE  
FINANCIAL STATEMENTS**

# SEWERAGE AND WATER BOARD OF NEW ORLEANS

## NOTES TO FINANCIAL STATEMENTS

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### (1) Summary of Significant Accounting Policies

#### History and Organization

The major operation of the Sewerage and Water Board of New Orleans (the Board) is providing water, sewerage and drainage services for the City of New Orleans (City). The Sewerage and Water Board of New Orleans was created by Act 6 of the Louisiana Legislature of 1899 as a special board independent of the City's government to construct, maintain and operate a water treatment and distribution system and a public sanitary sewerage system for the City. In 1903, the Legislature gave the Board control of and responsibility for the City's major drainage system and relieved the City of the duty of providing in its annual operating budget or otherwise for the maintenance and operations of the water, sewerage and drainage systems.

In accordance with the Louisiana Revised Statutes (LRS) 33:4096 and 4121, the Board has the authority to establish the water and sewerage rates to charge to its customers. The rates are based on the actual water consumed and on the costs of maintenance and operation of the water and sewerage systems, including the costs of improvements and replacements. The collections of water and sewerage revenues are to be used by the Board for the maintenance and operation of the systems, the cost of improvements, betterments, and replacements, and to provide for the payments of interest and principal on the bonds payable. The Board has also been given the authority to levy and collect various tax millages which are used for the operation and maintenance of the drainage operations. All excess revenues collected are made available for capital development of the system. The proceeds of the rate collections and tax millages are invested in such investments as authorized by the LRS. These investments are reflected in the combined balance sheet, as "restricted assets," as they are restricted to the purposes as described above.

The Board is composed of thirteen members, including the Mayor of the City, the two Councilmembers-at-Large, and one District Councilmember selected by the City Council, two members of the Board of Liquidation and seven citizens appointed by the Mayor. The appointed members of the Board serve staggered nine year terms.

*The Board's accounting policies conform to accounting principles generally accepted in the United States of America as applicable to utilities and to governmental units. The following is a summary of the more significant policies.*

#### (A) Reporting Entity

In conformity with the Governmental Accounting Standards Board's definition of a reporting entity, the Board includes an enterprise fund and a pension trust fund for financial reporting purposes. The Board is considered a reporting entity based on the following criteria:

- (a) **Responsibility for surpluses/deficits.** The Board is solely responsible for its surpluses/deficits. In accordance with Louisiana Revised Statutes, no other governmental unit is responsible for the Board's deficits or has a claim to its surpluses. The Board's operations are self-sustaining; revenues are generated through charges to customers and dedicated property taxes. Other than grants, no funding is received from the State of Louisiana or the City of New Orleans.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

NOTES TO FINANCIAL STATEMENTS  
(Continued)

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(1) Summary of Significant Accounting Policies (Continued)

- (b) **Budget Approval.** The Board is solely responsible for reviewing, approving and revising its budget.
- (c) **Responsibility for Debt.** The Louisiana Revised Statutes authorize the Board to issue bonds; such bonds must bear on their face a statement that they do not constitute a debt of the City. The Board is solely responsible for payments to the bondholders. No other governmental unit is required by statute to make any payments to bondholders nor have any payments to bondholders ever been made by any governmental unit, except the Board.
- (d) **Designation of Management.** The Board controls the hiring of management and employees.
- (e) **Special Financial Relationship.** The Board has no special financial relationships with any other governmental unit.
- (f) **Statutory Authority.** The Board's statutory authority was created by the State of Louisiana as an independent governmental unit. Only an amendment to state statutes can change or abolish the Board's authority.

The Board is a stand-alone entity as defined by GASB Statement 14, The Financial Reporting Entity. The Board is a legally-separate governmental organization that does not have a separately elected governing body and does not meet the definition of a component unit. As a result of a Louisiana Supreme Court decision on March 21, 1994, the Board was declared to be an autonomous or self-governing legal entity, legally independent of the city, state and other governments, created and organized pursuant to Louisiana Revised Statutes 33:4071 as a board, separate and independent of the governing authorities of the City and vested with autonomous or self governing authority. No other government can mandate actions of the Board nor impose specific financial burdens. The Board is fiscally independent to operate under its bond covenant and the provisions of Louisiana Revised Statute provisions.

(B) Basis of Presentation - Fund Accounting

The operations of the Board are accounted for in the following fund types:

# SEWERAGE AND WATER BOARD OF NEW ORLEANS

## NOTES TO FINANCIAL STATEMENTS

(Continued)

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(1) Summary of Significant Accounting Policies (Continued)

Proprietary Fund Type

The proprietary fund is used to account for the Board's ongoing operations and activities which are similar to those often found in the private sector. The proprietary fund is accounted for using a flow of economic resources measurement focus. With this measurement focus, all assets and all liabilities associated with the operation of these funds are included on the balance sheet. Fund equity is segregated into contributed capital and retained earnings. The operating statements present increases (revenues) and decreases (expenses) in net total assets. The Board maintains one proprietary fund type – the enterprise fund. The enterprise fund is used to account for operations (a) that are financed and operated in a manner similar to private business enterprises--where the intent of the governing body is that the cost (expenses, including depreciation) of providing goods or services to the general public on a continuing basis be financed or recovered primarily through user charges; or (b) where the governing body has decided that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance. The presentation of the financial statements of the enterprise fund follows the format recommended by the National Association of Regulatory Utility Commissioners (NARUC).

The balance sheet arrangement for a utility reflects the relative importance of the various accounts. "Property, plant and equipment" is the first major category on the asset side, and long-term capitalization categories such as fund equity are listed first on the liability side. Current assets and current liabilities are assigned a relatively less important position in the center of the balance sheet, rather than being placed first as in the balance sheets of commercial and industrial enterprises.

Fiduciary Fund Type

The fiduciary fund is used to account for assets held by the Board in a trustee capacity or as an agent for individuals, private organizations, other governmental units and/or other funds. The Board maintains one fiduciary fund type - the pension trust fund. The measurement focus of the pension trust fund is the same as that of the enterprise fund. The pension trust fund is used to account for the activity of the Board's employee retirement plan.

The Board applies all applicable FASB pronouncements issued on or before November 30, 1989 in accounting for its enterprise fund and pension trust fund operations unless those pronouncements conflict with or contradict GASB pronouncements.

(C) Basis of Accounting

The enterprise fund and the pension trust fund prepare their financial statements on the accrual basis accounting. Unbilled utility service charges are not recorded as management considers the effect of not recording such unbilled receivables as not material. Property taxes are recorded as revenue when collected by the Board's agent. Plan member contributions are recognized in the period in which contributions are due. Employer contributions to each plan are recognized when due and the employer has made a commitment to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of the plan.



SEWERAGE AND WATER BOARD OF NEW ORLEANS

NOTES TO FINANCIAL STATEMENTS  
(Continued)

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(1) Summary of Significant Accounting Policies (Continued)

(D) Investments

Investments are reported at fair value. Short-term investments (maturity of one year or less) are reported at amortized cost, which approximates fair value. Securities traded in a national or international exchange are valued at the last reported sales price at current exchange rates. Investments that do not have an established market are reported at estimated fair value.

(E) Inventory of Supplies

Inventory of supplies is stated at the lower of cost or market. Cost is determined by the first-in, first-out method.

(F) Property, Plant and Equipment

Property, plant and equipment are carried at historical cost. The cost of additions includes contracted work, direct labor, materials and allocable cost. Donated fixed assets are recorded at their estimated fair value at the date of donation. Interest is capitalized on fixed assets acquired and/or constructed with tax exempt debt. Depreciation is computed using the straight-line method over the estimated useful life of the asset. When assets are retired or otherwise disposed of, the cost and related accumulated depreciation are removed from the accounts and any resulting gain or loss is recognized in revenue for the period. The cost of maintenance and repairs is charged to operations as incurred and significant renewals and betterments are capitalized. Deduction is made for retirements resulting from renewals or betterments. Depreciation on assets acquired through contributions is charged to fund equity - revenue invested in water, sewerage and drainage system.

(G) Vacation and Sick Pay

Vacation (annual leave) and sick pay (sick leave) are accrued when earned. Annual leave is accrued at the rate of .6923 of a workday for each bi-weekly accrual period for all employees on the payroll as of December 31, 1978. Employees hired after that date earn leave at a rate of .5 of a workday per bi-weekly pay period.

All employees on the payroll as of December 31, 1978 receive three bonus days each year; all employees hired after that date receive three bonus days each year for five through nine calendar years of continuous service; six bonus days each year for ten through fourteen years; nine bonus days each year for fifteen through nineteen years; and, twelve days for twenty or more years of continuous service. Civil Service's policy permits employees a limited amount of earned but unused annual leave which will be paid to employees upon separation from the Board. The amount shall not exceed ninety days for employees hired before January 1, 1979, and forty-five days for employees hired after December 31, 1978.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

NOTES TO FINANCIAL STATEMENTS

(Continued)

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(1) Summary of Significant Accounting Policies (Continued)

Sick leave is accumulated on a bi-weekly basis by all employees hired prior to December 31, 1978 at an accrual rate of .923 of a workday. For employees hired subsequent to December 31, 1978, the accrual rate is .5 of a workday for each bi-weekly period, plus a two day bonus each year for employees with six through fifteen calendar years of continuous service, and seven bonus days each year for employees with sixteen or more calendar years of continuous service.

Upon separation from the Board, an employee can elect to convert unused sick leave for retirement credits or cash. The conversion to cash is determined by a rate ranging from one day of pay for five days of leave for the 1st through 100th leave day to one day of pay for one day of leave for all days in excess of the 400th leave day. The total liability for unconverted sick leave as December 31, 2001 and 2000 is approximately \$12,621,000 and \$13,409,000, respectively. The amount included in the balance sheet as of December 31, 2001 and 2000 is \$9,711,873 and \$10,278,580, respectively, which represents the annual leave and the converted sick leave since virtually all employees convert their sick leave to cash. The amounts for compensated absences include the salary cost as well as certain salary related costs, such as the Board's share of social security expense.

(H) Pension

The Board funds the accrued pension cost for its contributory pension plan which covers substantially all employees. Annual costs are actuarially computed using the entry age normal cost method.

(I) Drainage System

In 1903, the Legislature gave the Board control of and responsibility for the City's drainage system. The Drainage System was established as a department of the enterprise fund to account for the revenues from three-mill, six-mill and nine-mill ad valorem taxes designated exclusively for drainage services. These revenues have been supplemented by inspection and license fees collected by the Board. There exists a potential for additional financing by additional user service charges. Expenditures from the system are for the debt service of three-mill, six-mill and nine-mill tax bonds and drainage related operation, maintenance and construction.

Although not presently financed by user charges related to direct usage, the usual revenue source for an enterprise fund activity, the financing by dedicated millages or properties serviced, and the unique character of the services provided by the drainage system of the City, require enterprise fund accounting to provide meaningful measurement of cost of services and capital maintenance of the system. As such, property taxes are presented as operating revenues except for the two-mill tax, which is dedicated for capital improvements. Additionally, because of the peculiar geography of the City, the provision of drainage service is essential for the operation of water and sewerage systems. The drainage system operation and maintenance expenses include costs directly associated with the provision of drainage services as well as substantial allocated costs resulting from utilization of common resources such as administrative services, maintenance, equipment, and power generation and transmission.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

NOTES TO FINANCIAL STATEMENTS  
(Continued)

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(1) Summary of Significant Accounting Policies (Continued)

(J) Self-Insurance/Risk Management

The Board is self-insured for general liability, worker's compensation, unemployment compensation and hospitalization benefits and claims. The accrued liability for the various types of claims represents an estimate by management of the eventual loss on the claims arising prior to year-end, including claims incurred and not yet reported including estimates of both future payments of losses and related claims adjustments agreement expense both allocated and unallocated. Estimated expenses were based on a case by case review. Estimated recoveries have also been considered by management in assessing the estimated losses.

(K) Contributed Capital

Contributions from developers and others, and receipts of Federal, State and City grants for acquisition of property, plant and equipment are recorded as contributed capital in fund equity.

(L) Bond Issue Cost and Refinancing Gains (Losses)

Costs related to issuing bonds are capitalized and amortized based upon the methods used to approximate the interest method over the life of the bonds. Beginning with fiscal years in 1994 and thereafter, gains and losses associated with refundings and advance refundings are being deferred and amortized based upon the methods used to approximate the interest method over the life of the new bonds or the remaining term on any refunded bond, whichever is shorter.

(M) Total Columns on Combined Statements

Total columns on the Combined Statements are captioned "Memorandum Only" to indicate that they are presented only to facilitate financial analysis. Data in these columns do not present financial position, results of operations, or cash flows, in conformity with generally accepted accounting principles. Such data is not comparable to a consolidation since interfund eliminations have not been made.

(N) Cash Flows

For purposes of the statement of cash flows, only cash on hand and on deposit at financial institutions are considered to be cash equivalents. Certificates of deposits, treasury bills and other securities are considered investments.

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**NOTES TO FINANCIAL STATEMENTS  
(Continued)**

**(2) Cash and Investments**

The following are the components of the Board's Enterprise Fund's cash and investments as of December 31, 2001 and 2000:

	<u>Unrestricted</u>	<u>Restricted</u>	<u>Total</u>
<b><u>December 31, 2001</u></b>			
<b>Cash:</b>			
Enterprise fund	\$ 2,948,437	\$ 339,666	\$ 3,288,103
Pension trust fund	78,639	-	78,639
	<u>3,027,076</u>	<u>339,666</u>	<u>3,366,742</u>
<b>Certificates of deposit:</b>			
Enterprise fund	-	129,357,457	129,357,457
	<u>-</u>	<u>129,357,457</u>	<u>129,357,457</u>
<b>Total carrying amount of deposits</b>	<u>3,027,076</u>	<u>129,697,123</u>	<u>132,724,199</u>
<b>Investments:</b>			
Enterprise fund	-	63,396,656	63,396,656
Pension trust fund	173,695,292	-	173,695,292
	<u>\$ 176,722,368</u>	<u>\$ 193,093,779</u>	<u>\$ 369,816,147</u>
	<u>Unrestricted</u>	<u>Restricted</u>	<u>Total</u>
<b><u>December 31, 2000</u></b>			
<b>Cash:</b>			
Enterprise fund	\$ 1,627,311	\$ 243,861	\$ 1,871,172
Pension trust fund	78,684	-	78,684
	<u>1,705,995</u>	<u>243,861</u>	<u>1,949,856</u>
<b>Certificates of deposit:</b>			
Enterprise fund	-	167,890,886	167,890,886
Pension trust fund	70,000	-	70,000
	<u>70,000</u>	<u>167,890,886</u>	<u>167,960,886</u>
<b>Total carrying amount of deposits</b>	<u>1,775,995</u>	<u>168,134,747</u>	<u>169,910,742</u>
<b>Investments:</b>			
Enterprise fund	-	28,567,288	28,567,288
Pension trust fund	176,589,677	-	176,589,677
	<u>\$ 178,365,672</u>	<u>\$ 196,702,035</u>	<u>\$ 375,067,707</u>

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**NOTES TO FINANCIAL STATEMENTS  
(Continued)**

**(2) Cash and Investments (Continued)**

The composition and carrying value of investments is as follows:

	<u>2001</u>	<u>2000</u>	<u>Category</u>
<b>Enterprise Fund:</b>			
U.S. Government Securities and Instrumentalities	\$ 63,396,656	\$ 28,567,288	2
<b>Pension Trust Fund:</b>			
Money Market	\$ 6,789,816	\$ 3,596,902	-
Corporate Bonds	29,786,439	25,930,585	2
U.S. Government Securities and Instrumentalities	45,068,322	46,660,851	2
Foreign Obligations	1,248,965	1,397,984	2
Equities	90,657,308	99,003,355	2
	\$ <u>173,695,292</u>	\$ <u>176,589,677</u>	

**Cash and Certificates of Deposit -** At December 31, 2001, the bank balances of the Board's cash totaled \$5,150,639 and certificates of deposit totaled \$129,357,457. Of the cash bank balance, \$604,702 is covered by federal depository insurance. At December 31, 2000, the bank balances of the Board's cash totaled \$3,643,718 and certificates of deposit totaled \$167,960,886. Of the cash bank balance, \$578,176 is covered by federal depository insurance. The remaining amount of the Board's cash bank balances and all certificates of deposit for 2001 and 2000 were entirely covered by collateral held by custodial agents of the financial institutions in the name of the Board.

**Investments -** Statutes authorize the Board to invest in obligations of the U.S. Treasury, agencies, and instrumentalities, commercial paper rated A-1 by Standard & Poor's Corporation or P-1 by Moody's Commercial Paper Record, bankers' acceptances and repurchase agreements. In addition, the pension trust fund is authorized to invest in corporate bonds rated A or better by Standard & Poor Corporation or AAA or better by Moody's Investors Service, and equity securities.

The Board's investments at December 31, 2001 and 2000 are categorized above to give an indication of the level of risk assumed by the Board at year-end. Category 1 includes investments that are insured or registered or securities which are held by the Board or its agents in the Board's name. Category 2 includes uninsured and unregistered investments with the securities held by the counterparty's trust department or agent in the Board's name. Category 3 includes uninsured and unregistered investments where the securities are held by the counterparty or by its trust department or agent but not in the Board's name.

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**NOTES TO FINANCIAL STATEMENTS**

(Continued)

**(3) Defined Benefit Pension Plan**

The Board has a single-employer contributory retirement plan covering all full-time employees, the Pension Trust Fund (PTF). The Board's payroll for current employees covered by PTF for the years ended December 31, 2001 and 2000 was \$28,855,551 and \$30,235,213, respectively; such amounts exclude overtime and standby payroll. Total payroll, including overtime and standby payroll, was \$35,357,068 and \$38,384,731 for the years ended December 31, 2001 and 2000, respectively. At December 31, 2001 and 2000, the PTF membership consisted of:

	<u>2001</u>	<u>2000</u>
Retirees and beneficiaries currently receiving benefits and terminated employees entitled to benefits but not yet receiving them	<u>584</u>	<u>611</u>
Current employees:		
Vested	793	799
Nonvested	<u>381</u>	<u>445</u>
	<u>1,174</u>	<u>1,244</u>
<b>Total</b>	<u>1,758</u>	<u>1,855</u>

The benefit provisions were established by action of the Board in 1956 in accordance with Louisiana statutes. The Board retains exclusive control over the plan through the Pension Committee of the PTF. Effective January 1, 1996, the plan became qualified under Internal Revenue Code Section 401(a) and thus is tax exempt.

The plan provides for retirement benefits as well as death and disability benefits. All benefits vest after ten years of service. Employees who retire at or after age sixty-two with ten years of credited service are entitled to an annual retirement benefit, payable biweekly for life, in an amount equal to two percent of their average compensation for each year of credited service up to ten years, increasing by (1) one-half percent per year for service years over ten years, (2) an additional one-half percent per year for service years over twenty years and (3) an additional one percent per year for service years over thirty years, for a maximum of four percent for each year of credited service. Average compensation is the average annual earned compensation less \$1,200 for the period of thirty-six successive months of service during which the employee's compensation was the highest. Employees with thirty years or more of credited service may retire without a reduction in benefits. Employees may retire prior to age sixty-two without thirty years of service with a reduction in benefits of three percent for each year of age below the age of sixty-two. If an employee leaves covered employment or dies before three years of credited service, the accumulated employee contributions plus related investment earnings are refunded to the employee or designated beneficiary.

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**NOTES TO FINANCIAL STATEMENTS  
(Continued)**

**(3) Defined Benefit Pension Plan (Continued)**

The retirement allowance for retirees over age sixty-two is subject to a cost of living adjustment each January 1, provided that the member retired on or after January 1, 1984. The adjustment is based on the increase in the Consumer Price Index for all urban wage earners published by the U.S. Department of Labor, but is limited to an annual maximum of two percent on the first \$10,000 of initial retirement benefits. Effective September 23, 1993, employers may transfer credit between the Board's plan and the City of New Orleans retirement system with full credit for vested service.

The Board and its employees are obligated under plan provisions to make all required contributions to the plan. The required contributions are actuarially determined. Level percentage of payroll employer contribution rates is determined using the entry age normal actuarial funding method. Employees are required to contribute four percent of their regular salaries or wages in excess of \$1,200 annually.

The annual required contribution for the current year was determined as part of the December 31, 2001 actuarial valuation using the entry age normal cost method. The actuarial assumptions included (a) 7.0% investment rate of return (net of administrative expenses) and (b) projected salary increase of 5.0% per year. Both (a) and (b) included an inflation component of 2.0%. The actuarial value of assets was determined using a seven-year weighted market average.

The Board's net pension asset for the years ended December 31 was as follows:

	<b>2001</b>	<b>2000</b>
Annual required contribution	\$ -	\$ 891,032
Interest on net pension obligation	(430,361)	(194,260)
Adjustments to annual required contribution	3,291,840	1,024,987
Annual pension cost	2,861,479	1,721,759
Contributions made	4,548,324	5,094,633
Increase in net pension asset	1,686,845	3,372,874
Net pension asset, beginning of year	6,148,010	2,775,136
Net pension asset, end of year	\$ 7,834,855	\$ 6,148,010

The net pension asset is being amortized using the level dollar closed method and using the same interest, salary increase and inflation factors as the plan.

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**NOTES TO FINANCIAL STATEMENTS  
(Continued)**

**(3) Defined Benefit Pension Plan (Continued)**

Trend information is as follows:

	<u>Annual Pension Cost (APC)</u>	<u>Percentage of APC Contributed</u>	<u>Net Pension Asset</u>
Fiscal year ending:			
December 31, 2001	\$ 2,861,477	191%	\$ 7,834,855
December 31, 2000	\$ 1,721,759	316%	\$ 6,148,010
December 31, 1999	\$ 3,528,376	149%	\$ 2,775,136

The Board attained full funding of the actuarially computed pension liability in 2000. The actuarially determined requirement for the Board in 1972 is 15.76 percent and for employees is 4.0 percent. The actual Board's and employees' contributions (including contributions for transferred employees from other pension plans) for years ended December 31 are as follows:

	<u>2001</u>	<u>2000</u>
Employer and other transfers	\$ 5,417,852	\$ 5,444,048
Employee	1,040,680	1,053,495
<b>Total Contributions</b>	<b>\$ 6,458,532</b>	<b>\$ 6,497,543</b>

**DROP**

Beginning in 1996, the Board offered employees a "Deferred Retirement Option Plan" (DROP), an optional retirement program which allows an employee to elect to freeze his or her retirement benefits, but continue to work and draw a salary for a minimum period of one year to a maximum period of three years.

While continuing employment, the retirement benefits are segregated from overall plan assets available to other participants. As of December 31, 2001 and 2000, 72 and 47 employees, respectively, participated in the plan. The amount of plan assets segregated for these individuals was \$1,649,967 and \$1,291,359 as of December 31, 2001 and 2000, respectively.

A separate report on the pension trust fund is not issued.



**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**NOTES TO FINANCIAL STATEMENTS  
(Continued)**

**(4) Property, Plant and Equipment**

Property, plant and equipment consisted of the following:

	<u>2001</u>	<u>2000</u>	<u>Useful Lives</u>
<b><u>Water Department</u></b>			
Property plant and equipment in service:			
Real estate rights	\$ 2,898,138	\$ 2,898,138	-
Power and pumping stations:			
Buildings	52,384,607	47,676,462	57 Years
Machinery	109,346,249	106,225,865	40 Years
Distribution systems	118,926,916	108,722,113	75 Years
Connections and meters	27,278,611	24,294,145	50 Years
Fuel oil tanks	177,325	138,372	50 Years
Power transmission	8,817,200	8,032,319	50 Years
General plant items	83,859,860	68,968,777	12 Years
Building	3,088,499	2,959,971	25 Years
	<u>406,777,405</u>	<u>369,916,162</u>	
 Add: property, plant and equipment in Progress	 <u>6,600,250</u>	 <u>30,874,749</u>	
	413,377,655	400,790,911	
 Less: accumulated depreciation	 <u>176,356,421</u>	 <u>163,694,805</u>	
	237,021,234	237,096,106	
 Net property, plant and equipment - water department	 <u>\$ 237,021,234</u>	 <u>\$ 237,096,106</u>	

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**NOTES TO FINANCIAL STATEMENTS  
(Continued)**

**(4) Property, Plant and Equipment (Continued)**

	<u>2001</u>	<u>2000</u>	<u>Useful Lives</u>
<b><u>Sewerage Department</u></b>			
<b>Property, plant and equipment in service:</b>			
Real estate rights	\$ 905,876	\$ 874,851	-
Power and pumping stations:			
Buildings	25,526,896	22,060,005	57 Years
Machinery	28,925,136	24,116,983	40 Years
Sewer	166,955,586	125,765,173	75 Years
House connections	13,172,911	11,752,448	50 Years
Power transmission	5,358,903	4,529,913	50 Years
Treatment plants	112,967,536	97,052,632	50 Years
General plant items	58,527,451	44,090,624	12 Years
Buildings	1,336,972	1,336,972	25 Years
<b>Total property, plant and equipment in     Service</b>	<b>413,677,267</b>	<b>331,579,601</b>	
<b>Add: property, plant and equipment in Progress</b>	<b>64,489,009</b>	<b>95,360,036</b>	
<b>Total property, plant and equipment</b>	<b>478,166,276</b>	<b>426,939,637</b>	
<b>Less: accumulated depreciation</b>	<b>134,866,940</b>	<b>125,438,986</b>	
<b>Net property, plant and equipment-     sewerage department</b>	<b>\$ 343,299,336</b>	<b>\$ 301,500,651</b>	

SEWERAGE AND WATER BOARD OF NEW ORLEANS

NOTES TO FINANCIAL STATEMENTS  
(Continued)

(4) Property, Plant and Equipment (Continued)

	<u>2001</u>	<u>2000</u>	<u>Useful Lives</u>
<u>Drainage Department</u>			
Property, plant and equipment in service:			
Real estate rights	\$ 4,768,886	\$ 3,581,587	-
Power and pumping stations:			
Buildings	114,334,109	97,328,628	57 Years
Machinery	90,439,652	89,950,418	40 Years
Canals	202,825,206	191,554,388	100 Years
Sub-surface drain	8,628,279	8,574,174	75 Years
Power transmission	11,407,980	12,014,076	50 Years
General plant items	45,415,400	35,097,231	12 Years
Buildings	<u>4,852,010</u>	<u>2,584,271</u>	25 Years
 Total property, plant and equipment in service	 482,671,522	 440,684,773	
 Add: property, plant and equipment in progress	 <u>90,630,173</u>	 <u>79,757,612</u>	
 Total property, plant and equipment	 573,301,695	 520,442,385	
 Less: accumulated depreciation	 <u>136,139,178</u>	 <u>125,816,828</u>	
 Net property, plant and equipment- drainage department	 <u>437,162,517</u>	 <u>394,625,557</u>	
 <u>All Departments</u>			
 Total property, plant and equipment	 1,464,845,626	 1,348,172,933	
 Less: accumulated depreciation	 <u>447,362,539</u>	 <u>414,950,619</u>	
 Net property, plant and equipment - All departments	 <u>\$ 1,017,483,087</u>	 <u>\$ 933,222,314</u>	

Interest capitalized for construction projects in progress for the year ended December 31, 2001 amounted to \$2,377,677 which consists of interest incurred of \$6,627,168 less interest earned on construction funds of \$4,249,491. Interest capitalized for construction projects in progress for the year ended December 31, 2000 amounted to \$670,143, which consists of interest incurred of \$5,298,212 less interest earned on construction funds of \$4,628,069.

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**NOTES TO FINANCIAL STATEMENTS  
(Continued)**

**(5) Customer Receivables**

Customer receivables at December 31, 2001 and 2000 consist of the following:

			<b>Customer Accounts</b>		<b>Allowance for Doubtful Accounts</b>		<b>Net</b>
2001	Water	\$	9,171,584	\$	2,196,033	\$	6,975,551
			6,196,233		1,638,152		4,558,081
		\$	<u>15,367,817</u>	\$	<u>3,834,185</u>	\$	<u>11,533,632</u>
2000	Water	\$	8,702,779	\$	1,929,296	\$	6,773,483
			6,065,680		1,155,057		4,910,623
		\$	<u>14,768,459</u>	\$	<u>3,084,353</u>	\$	<u>11,684,106</u>

**(6) Due from the City of New Orleans**

In accordance with the terms of an agreement with the City of New Orleans, the Board and the City agreed to offset \$2,098,687 (net of unearned discount \$285,696) owed by the City to the Board at the rate of \$200,000 annually in lieu of civil service charges through 2009. As of December 31, 2001 and 2000, \$1,098,586 and \$1,198,400, respectively, was due from the City of New Orleans.

**(7) Contributed Capital**

The following is a summary of changes in contributed capital by source:

		<b>Balance January 1, 2001</b>	<b>Additions</b>		<b>Balance December 31, 2001</b>
Municipality	\$	8,868,396	\$ -	\$	8,868,396
Developers and others		72,576,943	5,873,037		78,449,980
Federal and State		104,685,284	41,418,791		146,104,075
	\$	<u>186,130,623</u>	<u>47,291,828</u>	\$	<u>233,422,451</u>
		<b>Balance January 1, 2000</b>	<b>Additions</b>		<b>Balance December 31, 2000</b>
Municipality	\$	8,868,396	\$ -	\$	8,868,396
Developers and others		68,603,062	3,973,881		72,576,943
Federal and State		70,645,054	34,040,230		104,685,284
	\$	<u>148,116,512</u>	<u>38,014,111</u>	\$	<u>186,130,623</u>

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**NOTES TO FINANCIAL STATEMENTS  
(Continued)**

**(8) Bonds Payable**

Bonds payable consisted of the following as of December 31:

	<b>Principal Balances</b>	
	<b>2001</b>	<b>2000</b>
7.00% water revenue bonds, series 1986 (average interest cost 6.73%), due in annual principal installments ranging from \$465,000 to \$500,000; final payment due December 1, 2003	\$ 965,000	\$ 1,400,000
4.30% to 6.25% sewerage revenue bonds, series 1997 (average interest cost 5.36%), due in annual principal installments ranging from \$1,030,000 to \$2,425,000; final payment due June 1, 2017	26,465,000	27,435,000
5.00% to 5.15% drainage system bonds, series 1994 (average interest cost 5.06%), due in annual principal installments ranging from \$1,080,000 to \$1,140,000; final payment due November 1, 2003	2,220,000	3,255,000
5.00% water revenue bonds, series 1998 (average interest cost 4.82%), due in annual principal final payment due final payment due \$585,000 to \$1,220,000; final payment due December 1, 2018	14,665,000	15,225,000
4.13% to 6.00% sewer revenue bonds, series 1998 (average interest cost 4.82%), due in annual principal installments ranging from \$915,000 to \$1,910,000; final payment due December 1, 2018	22,915,000	23,790,000
4.10% to 6.10% drainage system bonds, series 1998 (average interest cost 4.84%), due in annual principal installments ranging from \$355,000 to \$760,000; final payment due December 1, 2018	9,045,000	9,380,000
5.25% to 6.50% sewer revenue bonds, series 2000A (average interest cost 5.48%), due in annual principal installments ranging from \$770,000 to \$2,205,000; final payment due June 1, 2020	26,070,000	26,800,000

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**NOTES TO FINANCIAL STATEMENTS  
(Continued)**

**(8) Bonds Payable (Continued)**

	<u>Principal Balances</u>	
	<u>2001</u>	<u>2000</u>
5.00% to 7.00% sewer revenue bonds, series 2000B (average interest cost 5.24%), due in annual principal installments ranging from \$605,000 to \$1,660,000; final payment due December 1, 2020	19,955,000	20,300,000
4.5% to 6.50% sewer revenue bonds, series 2001 (average interest cost 5.02%), due in annual principal installments ranging from \$930,000 to \$2,455,000; final payment due December 1, 2021	32,720,000	-
	155,020,000	127,585,000
Less current maturities	6,735,000	5,285,000
	<u>\$ 148,285,000</u>	<u>\$ 122,300,000</u>

The annual requirements to amortize all bonds payable as of December 31, 2001, including interest payments of \$83,726,562, are as follows:

<u>Year</u>	<u>Revenue Bonds</u>	<u>Tax Bonds</u>	<u>Total</u>
2002	\$ 12,848,539	\$ 1,988,546	\$ 14,837,085
2003	12,930,251	1,986,812	14,917,063
2004	12,344,259	785,532	13,129,791
2005	12,295,189	776,742	13,071,931
2006	12,260,512	775,986	13,036,498
2007-2011	61,376,137	3,954,996	65,331,133
2012-2016	61,337,976	3,971,352	65,309,328
2017-2021	<u>37,521,733</u>	<u>1,592,000</u>	<u>39,113,733</u>
Total	<u>\$ 222,914,596</u>	<u>\$ 15,831,966</u>	<u>\$ 238,746,562</u>

The indentures under which these bonds were issued provide for the establishment of restricted funds for debt service as follows:

1. Debt service funds are required for the payment of interest and principal on the revenue and tax bonds. Monthly deposits on revenue bonds are required to be made into this fund from operations in an amount equal to 1/6 of the interest falling due on the next interest payment date, and an amount equal to 1/12 of the principal falling due on the next principal payment date. All debt service funds are administered by the Board of Liquidation. The required amount to be accumulated in this fund was \$2,091,524 and \$866,862 at December 31, 2001 and 2000, respectively; the accumulated balance at December 31, 2001 and 2000 was \$3,454,568 and \$3,075,868, respectively.

## SEWERAGE AND WATER BOARD OF NEW ORLEANS

## NOTES TO FINANCIAL STATEMENTS

(Continued)

**(8) Bonds Payable (Continued)**

2. A debt service reserve is required for an amount equal to but not less than fifty percent of the amount required to be credited in said month to the debt service fund until there shall be accumulated in the debt service reserve account the largest amount required in any future calendar year to pay the principal and interest on outstanding bonds, except for the water, sewer and 1986 drainage 9 mill tax bonds. The water, sewer and 1986 drainage 9 mill tax bonds require an amount equal to the largest amount required in any future calendar year to pay the principal of and interest on outstanding bonds. There is no debt service reserve required for the 1994 drainage 6 mill and 1998 drainage 9 mill tax bonds. The required amount to be accumulated in this fund was \$14,597,376 and \$12,006,811 at December 31, 2001 and 2000, respectively; the accumulated balance at December 31, 2001 and 2000 was \$14,597,376 and \$12,006,811, respectively.

The net operating revenues of the Water Department and the Sewerage Department of the Board for the year ended December 31, 2001 were adequate to meet the bond indenture required debt service coverage of 130 percent. The Board is in compliance with the requirements of its long-term debt agreements at December 31, 2001.

The statutory limit of tax bonds at December 31, 2001, is \$86,000,000 providing a debt margin for tax bonds of \$74,735,000.

**(9) Bond Refinancing**

In August 1986, the Board defeased water and sewer bonds. The amount of defeased water revenue bonds remaining outstanding as of December 31, 2001 and 2000 was \$875,000 and \$2,040,000, respectively.

**(10) Due to City of New Orleans**

The Board bills and collects sanitation charges on behalf of the City of New Orleans (City). The Board is not liable for any uncollected sanitation charges. The amount due the City for sanitation fees collected was \$231,636 and \$221,488 at December 31, 2001 and 2000, respectively.

**(11) Property Taxes**

Property taxes are levied by the City of New Orleans. Taxes on real and personal property attach as an enforceable lien on the property as of January 1. Taxes are levied on January 1, are payable on January 1, and are delinquent on February 1.

The assessed value of the property is determined by an elected Board of Assessors. The assessed value for 2001 was \$2,248,022,196. The combined tax rate dedicated for the Board for the years ended December 31, 2001 and 2000 was \$22.59 per \$1,000 of assessed valuation. These dedicated funds are available for operations, maintenance, construction and extension of the drainage system (except for subsurface systems).

SEWERAGE AND WATER BOARD OF NEW ORLEANS

NOTES TO FINANCIAL STATEMENTS

(Continued)

(12) Commitments

a. Capital Improvements

At December 31, 2001, the Board's budget for its five-year capital improvements program totaled \$1,150,142,000 including \$249,397,000 for water, \$413,909,000 for sewerage and \$486,836,000 for drainage. Due to certain regulatory and legislative changes, additional capital improvements will probably be required. Future capital improvement program expenditures may require the issuance of additional debt depending on the amount and timing of expenditures. As of December 31, 2001, the Board has committed or appropriated \$73,904,548 in investments for use in future capital projects and has \$86,345,814 of bond proceeds remaining for construction. The capital project investments are included in restricted assets.

The capital improvements budget for 2002 is \$207,261,000, including \$48,547,000 in projects, which is to fund the federal grants and programs. Significant projects included in property, plant and equipment in progress as of December 31, 2001 include the following:

Southeast Louisiana Flood Control Program  
City-wide Sewer Rehabilitation Programs  
Drainage Pumping Station #1  
Eastbank Sewer Treatment Plant  
Westbank Sewer Treatment Plant

b. Self-insurance

The Board is self-insured for general liability, worker's compensation, and hospitalization benefits and claims. Settled claims have not exceeded excess coverage in any of the past three fiscal years. Hospitalization benefits are charged to payroll related expense.

General liability claims are segregated internally by "claims" and "suits" depending on the scope and type of claim, and are handled by the Office of the Special Counsel and Administrative Services. Individual general liability losses have ranged from \$100 to \$7,500,000, illustrating the volatility of this exposure. The provision for claims expense for 2001 and 2000 amounted to \$4,982,174 and \$9,024,666, respectively.

Worker's compensation expense provision for 2001 and 2000 amounted to \$2,470,336 and \$2,354,731, respectively.

The hospitalization self-insurance benefits are administered by Blue Cross of Louisiana. The Board's expense provision in excess of employee contributions for 2001 and 2000 were approximately \$7,700,000 and \$7,100,000 respectively, and is included in payroll related expenses.



**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**NOTES TO FINANCIAL STATEMENTS  
(Continued)**

**(12) Commitments (Continued)**

Changes in the claims payable amount are as follows:

<b>Fiscal Year</b>	<b>Beginning of Year</b>	<b>Current Year Claims and Estimate Change</b>	<b>Claim Payments</b>	<b>End of Year</b>
2001	\$ 34,038,890	7,452,510	5,727,130	35,764,270
2000	\$ 26,341,964	11,514,750	3,817,824	34,038,890

The composition of claims payable is as follows:

	<b>2001</b>	<b>2000</b>
<b>Short-term:</b>		
Workers' Compensation	\$ 1,004,564	\$ 892,432
Health Insurance	1,714,091	1,615,064
General Liability	20,163,186	24,995,150
<b>Total short-term</b>	<b>22,881,841</b>	<b>27,502,646</b>
<b>Long-term:</b>		
Workers' Compensation	6,182,430	6,536,244
General Liability	6,699,999	-
<b>Total long-term</b>	<b>12,882,429</b>	<b>6,536,244</b>
<b>Total</b>	<b>\$ 35,764,270</b>	<b>\$ 34,038,890</b>

In addition to providing pension benefits, the Board provides certain health care benefits for retired employees in accordance with its pension plan provisions. All of the Board's employees may become eligible for those benefits if they reach normal retirement age while working for the Board. The cost of retiree health care is recognized when incurred including an estimate for the amount incurred but not yet reported. For 2001 and 2000, the costs incurred by the Board for those benefits were approximately \$2,895,306 and \$2,111,000, respectively. The number of participants eligible to receive health care benefits was 673 and 674 as of December 31, 2001 and 2000, respectively.

## SEWERAGE AND WATER BOARD OF NEW ORLEANS

### NOTES TO FINANCIAL STATEMENTS (Continued)

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#### c. Regulatory Matters

The Board, as well as other utilities, is subject to environmental standards imposed by federal, state and local environmental laws and regulations. The Board has entered into a consent decree with the United States which allows the Board to go forward with its major program to repair and rehabilitate the sewerage system while drawing on a \$100 million commitment from the United States. The Board expended \$27,413,314 and \$19,162,831 of the commitment at December 31, 2001 and 2000, respectively. The overall costs of the program are estimated at \$499.8 million over a period ending in 2010.

The Board is also participating in Federal financial award programs which are subject to financial and compliance audits by various agencies. No disallowed costs have been identified. As part of Federal and other governmental agency funding, the Board is required to match a portion of funding received. The Board does not foresee any problems in its matching requirements.

#### (13) Deferred Compensation Plan

The Board offers its employees a deferred compensation plan created in accordance with Internal Revenue Code Section 457. This plan, available to all employees, permits them to defer a portion of their salary until future years. The deferred compensation is not available to employees until termination, retirement, death, or unforeseeable emergency.

All amounts of compensation deferred under the plan, all property, and rights purchased with those amounts, and all income attributable to those amounts, property or rights are held in trust for the employees, therefore the assets of the plan are not included in these financial statements.

#### (14) Budgets

Operating and capital expenditure budgets are adopted by the Board on a basis consistent with generally accepted accounting principles. While not legally required, this budgetary information is employed as a management control device during the year. Comparison between actual and budgeted expenses is not a required presentation for an Enterprise Fund.

#### (15) Subsequent Event

In an effort to reduce operating costs, the Board has solicited proposals from managed competition providers for all water and wastewater operations. The Board has received the proposals for water treatment and transmission; sewer treatment and pumping, all underground pipe repair, meter reading and repair; billing and collection; customer service, and portions of various overhead departments. Proposals received by the Board are under evaluation. Should a company be selected, the contract would be subject to the approval of the voters of the City.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

NOTES TO FINANCIAL STATEMENTS  
(Continued)

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(16) Upcoming Pronouncement

In 2002, the Board will be implementing Government Accounting Standards Board No. 34 which will significantly change the reporting and accounting for government organizations. The impact of implementing this standard on the accounting and reporting of the Board's financial statements has not been determined.

**REQUIRED SUPPLEMENTARY INFORMATION  
(GASB STATEMENT NO. 25)**

SEWERAGE AND WATER BOARD

Schedule 1

Required Supplementary Information Under GASB Statement No. 25

SCHEDULE OF FUNDING PROGRESS

Actuarial Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability (AAL)	(Overfunded) Unfunded AAL	Funded Ratio	Covered Payroll	Unfunded AAL as a Percentage of payroll
12/31/01	\$ 180,737,126	\$ 167,062,451	\$ (13,674,675)	108.19%	\$ 28,855,551	-47.39%
12/31/00	164,845,672	160,568,317	(4,277,355)	102.66%	30,235,213	-14.15%
12/31/99	149,976,441	156,520,350	6,543,909	95.82%	31,276,546	20.92%

SCHEDULE OF EMPLOYER CONTRIBUTIONS

Year Ended	Annual Required Contribution	Actual Contribution	Percentage Contribution
12/31/01	\$ -	\$ 5,417,852	-
12/31/00	891,032	5,444,048	610.98%
12/31/99	3,304,992	5,270,098	159.46%
12/31/98	4,696,092	5,315,197	113.18%
12/31/97	5,701,361	5,522,097	96.86%

See accompanying notes to financial statements.

## **SUPPLEMENTARY INFORMATION**

SEWERAGE AND WATER BOARD OF NEW ORLEANS

BALANCE SHEETS BY DEPARTMENT

ENTERPRISE FUND

As of December 31, 2001 and 2000

	Water System		Sewerage System		Drainage System		Total	
	2001	2000	2001	2000	2001	2000	2001	2000
<b>ASSETS</b>								
Property, plant and equipment	\$ 413,377,655	\$ 400,790,911	\$ 478,166,276	\$ 426,939,637	\$ 573,301,695	\$ 520,442,385	\$ 1,464,845,626	\$ 1,348,172,933
Less accumulated depreciation	176,356,421	163,694,805	134,866,940	125,438,986	136,139,178	125,816,828	447,362,539	414,950,619
	237,021,234	237,096,106	343,299,336	301,500,651	437,162,517	394,625,557	1,017,483,087	933,222,314
<b>Restricted assets:</b>								
Capital projects	12,078,527	29,314,039	11,090,000	8,464,094	50,776,021	41,869,438	73,904,548	79,647,571
Construction funds	2,924,169	528,302	67,732,927	66,563,161	15,688,718	20,308,199	86,345,814	87,399,662
Debt service reserve	3,613,436	3,613,436	10,983,940	8,393,375	-	-	14,597,376	12,006,811
Customer deposits	5,579,473	5,360,123	3,000,000	-	-	-	5,579,473	5,360,123
Health insurance reserve	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	9,000,000	9,000,000
Debt service	306,095	307,720	3,148,473	2,768,148	-	-	3,454,568	3,075,868
Other	94,000	94,000	79,000	79,000	39,000	39,000	212,000	212,000
	27,595,700	42,217,620	95,994,340	89,267,778	69,203,739	65,216,637	193,093,779	196,702,035
<b>Current assets:</b>								
Cash	1,002,377	908,248	1,575,639	608,315	370,421	110,748	2,948,437	1,627,311
Accounts receivable:								
Customers (net of allowance for doubtful accounts)	6,975,551	6,773,483	4,558,081	4,910,623	693,191	634,359	11,533,632	11,694,106
Taxes	-	-	-	-	390,834	489,149	693,191	634,359
Interest	77,061	493,534	60,493	209,882	-	-	488,388	1,192,563
Grants	-	-	214,529	217,104	-	-	214,529	217,104
Miscellaneous	223,385	227,145	462,808	462,320	559,484	560,718	1,245,677	1,250,183
Due from City of New Orleans, current	96,000	96,000	70,000	70,000	34,000	34,000	200,000	200,000
Due from (to) other internal departments	1,178,345	(4,775,661)	(1,471,324)	3,106,646	292,979	1,669,015	-	-
Inventory of supplies	4,773,461	4,282,490	1,899,362	1,820,091	196,242	153,558	6,869,065	6,256,139
Prepaid expenses	302,560	302,560	235,325	235,325	134,471	134,471	672,356	672,356
	14,628,740	8,307,799	7,604,913	11,640,306	2,631,622	3,786,018	24,865,275	23,734,123
<b>Total current assets</b>	431,321	479,232	314,505	349,440	152,760	169,728	898,586	998,400
<b>Due from City of New Orleans, less current portion</b>								
<b>Other assets:</b>								
Bond issue costs	196,736	252,797	791,459	638,372	85,346	106,846	1,073,541	998,015
Deposits	22,950	22,950	17,965	17,965	10,400	10,400	51,315	51,315
Pension Asset	3,839,078	3,012,524	2,350,457	1,844,403	1,645,320	1,291,083	7,834,855	6,148,010
	4,058,764	3,288,271	3,159,881	2,500,740	1,741,066	1,408,329	8,959,711	7,197,340
	283,735,739	291,389,028	450,372,975	405,258,915	511,191,704	465,206,269	1,245,300,438	1,161,854,212

(Continued)

SEWERAGE AND WATER BOARD OF NEW ORLEANS  
BALANCE SHEETS BY DEPARTMENT, CONTINUED  
ENTERPRISE FUND

	Water System		Sewerage System		Drainage System		Total	
	2001	2000	2001	2000	2001	2000	2001	2000
<b>FUND EQUITY AND LIABILITIES</b>								
Fund equity:								
Contributed capital	\$ 27,693,343	\$ 26,783,649	\$ 78,244,995	\$ 69,909,672	\$ 127,484,513	\$ 89,833,302	\$ 233,422,451	\$ 186,130,623
Retained earnings-revenue reinvested:								
Property, plant and equipment	194,523,264	185,232,611	191,865,985	194,189,857	303,955,619	303,961,608	690,344,868	683,384,076
Appropriated for capital projects	12,078,527	29,314,039	11,050,000	8,464,094	50,776,021	41,869,438	73,904,548	79,647,571
Reserve for bond debt service	3,919,531	3,921,156	14,132,413	11,161,523	-	-	18,051,944	15,082,679
Total retained earnings	210,521,322	218,467,806	217,048,398	213,815,474	354,731,640	345,831,046	782,301,360	778,114,326
Total fund equity	238,214,665	245,251,455	295,292,993	283,725,146	482,216,153	435,666,348	1,015,723,811	964,244,949
Long-term liabilities:								
Claims payable	4,294,143	2,178,748	4,294,143	2,178,748	4,294,143	2,178,748	12,882,429	6,536,244
Bonds payable (net of current maturities)	14,580,000	15,630,000	123,875,000	95,405,000	9,830,000	11,265,000	1,852,225,000	1,223,000,000
	18,874,143	17,808,748	128,169,143	97,583,748	14,124,143	13,443,748	161,167,429	128,836,244
Current liabilities (payable from current assets):								
Accounts payable	5,909,606	6,049,184	8,446,932	6,627,695	3,116,468	3,070,429	17,473,006	15,747,308
Due to City of New Orleans	231,636	221,488	19,567	(9,729)	363,190	110,940	231,636	221,488
Retainers and estimates payable	190,561	164,276	6,749	42,519	5,120	32,537	533,278	265,487
Due to other fund	11,403	74,229	384,689	346,608	308,069	254,622	23,272	149,285
Accrued salaries	623,951	589,560	2,867,491	3,018,845	2,109,884	2,154,742	1,316,709	1,190,790
Accrued vacation and sick pay	4,734,498	5,104,993	7,533,003	9,364,228	7,433,016	8,851,174	9,711,873	10,278,580
Claims payable	7,895,822	9,287,244	2,615	72,219	-	9,675	22,881,841	27,502,646
Other liabilities	30,824	126,128	2,615	72,219	-	9,675	33,439	208,022
	19,588,301	21,617,102	19,281,046	19,462,385	13,335,707	14,484,119	52,205,054	55,563,606
Current liabilities (payable from restricted assets):								
Accrued interest	75,963	70,567	570,102	437,474	55,613	66,025	701,678	574,066
Bonds payable	1,050,000	995,000	4,250,000	2,920,000	1,435,000	1,370,000	6,735,000	5,285,000
Retainers and estimates payable	353,214	284,033	2,809,691	1,530,162	25,088	176,029	3,187,993	1,990,224
Customer deposits	5,579,473	5,360,123	7,629,793	4,887,636	1,515,701	1,612,054	5,579,473	5,360,123
	7,058,650	6,709,723	26,910,839	24,550,021	14,851,408	16,096,173	16,204,144	13,209,413
Total current liabilities	26,646,951	28,326,825	45,079,982	40,528,915	28,975,551	29,539,921	68,409,198	68,773,019
Total liabilities	45,521,094	46,135,573	195,079,982	121,933,769	511,191,704	465,206,269	229,576,627	197,609,263
Total fund equity and liabilities	\$ 283,735,759	\$ 291,389,028	\$ 490,372,975	\$ 405,258,915	\$ 511,191,704	\$ 465,206,269	\$ 1,245,300,438	\$ 1,161,854,212

See accompanying independent auditor's report.



SEWERAGE AND WATER BOARD OF NEW ORLEANS  
REVENUES AND EXPENSES BY DEPARTMENT

ENTERPRISE FUND

For the years ended December 31, 2001 and 2000

	Water System		Sewerage System		Drainage System		Total	
	2001	2000	2001	2000	2001	2000	2001	2000
<b>Operating revenues:</b>								
Sales of water and delinquent fees	\$ 52,220,820	\$ 55,064,217	\$ -	\$ 48,767,445	\$ -	\$ -	\$ 52,220,820	\$ 55,064,217
Sewerage service charges	-	-	49,738,713	-	-	-	49,738,713	48,767,445
Three-mill tax	-	-	-	-	10,401,634	10,282,702	10,401,634	10,282,702
Six-mill tax	-	-	-	-	10,531,750	10,411,336	10,531,750	10,411,336
Nine-mill tax	-	-	-	-	15,780,366	15,600,065	15,780,366	15,600,065
Plumbing inspection and license fees	106,918	152,387	106,918	152,387	-	-	213,836	304,774
<b>Total revenues</b>	<b>52,327,738</b>	<b>55,216,604</b>	<b>49,845,631</b>	<b>48,919,832</b>	<b>36,713,750</b>	<b>36,294,103</b>	<b>138,887,119</b>	<b>140,430,539</b>
<b>Operating Expenses:</b>								
Power and pumping	10,096,276	10,535,990	2,713,134	2,445,310	7,076,597	6,984,630	19,886,007	19,965,930
Treatment	5,168,999	4,459,647	10,580,586	8,865,625	-	-	15,749,585	13,325,272
Transmission and distribution	8,654,532	10,327,420	5,847,260	5,847,260	3,351,237	3,412,144	17,517,122	19,586,824
Customer accounts	1,385,807	1,423,481	1,385,802	1,423,475	-	-	2,771,609	2,846,956
Customer service	1,343,899	1,245,543	1,343,895	1,245,538	-	-	2,687,794	2,491,081
Administration and general	7,122,913	5,994,103	5,286,598	4,714,402	2,183,894	2,314,332	14,593,405	13,072,837
Payroll related	6,865,602	6,754,904	4,323,641	4,017,757	3,179,273	2,840,729	14,368,516	13,613,390
Maintenance of general plant	4,720,953	5,232,272	2,475,371	2,713,504	2,628,670	1,832,184	9,824,994	9,777,960
Depreciation	12,943,331	11,028,737	10,872,406	8,336,623	10,562,848	9,102,093	34,378,585	28,467,453
Amortization	56,061	56,061	46,912	36,612	21,500	21,500	124,473	114,173
Provision for doubtful accounts	880,310	605,149	780,957	465,736	-	309	1,661,267	1,071,194
Provision for claims	2,603,310	3,739,128	2,245,897	4,276,144	2,603,303	3,364,125	7,452,510	11,379,397
<b>Total operating expenses</b>	<b>61,841,993</b>	<b>61,402,435</b>	<b>47,566,552</b>	<b>44,387,986</b>	<b>31,607,322</b>	<b>29,872,046</b>	<b>141,015,867</b>	<b>135,662,467</b>
<b>Net operating revenue (expense)</b>	<b>(9,514,255)</b>	<b>(6,185,831)</b>	<b>2,279,079</b>	<b>4,531,846</b>	<b>5,106,428</b>	<b>6,422,057</b>	<b>(2,128,748)</b>	<b>4,768,072</b>
<b>Non-operating revenues:</b>								
Two-mill tax	476,716	1,596,554	654,241	725,669	10,726	6,348	10,726	6,348
Interest income	1,091,055	1,379,559	299,604	156,136	2,825,053	3,764,922	3,956,010	6,087,145
Other revenue	-	-	299,604	156,136	958,387	972,807	2,349,046	2,508,502
<b>Total non-operating revenues</b>	<b>1,567,771</b>	<b>2,976,113</b>	<b>953,845</b>	<b>881,805</b>	<b>3,794,166</b>	<b>4,744,077</b>	<b>6,315,782</b>	<b>8,601,995</b>
<b>Revenue reinvested (loss)</b>	<b>(7,946,484)</b>	<b>(3,209,718)</b>	<b>3,232,924</b>	<b>5,413,651</b>	<b>8,900,594</b>	<b>11,166,134</b>	<b>4,187,034</b>	<b>13,370,067</b>
<b>Retained earnings, beginning of year</b>	<b>218,467,806</b>	<b>221,677,524</b>	<b>213,815,474</b>	<b>208,401,823</b>	<b>345,831,046</b>	<b>334,664,912</b>	<b>778,114,326</b>	<b>764,744,259</b>
<b>Retained earnings, end of year</b>	<b>\$ 210,521,322</b>	<b>\$ 218,467,806</b>	<b>\$ 217,048,398</b>	<b>\$ 213,815,474</b>	<b>\$ 354,731,640</b>	<b>\$ 345,831,046</b>	<b>\$ 782,901,360</b>	<b>\$ 778,114,326</b>

See accompanying independent auditors' report.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

Schedule 3

SCHEDULE OF BONDS PAYABLE

December 31, 2001

	Average Interest Rates	Interest Payment Dates	Issue Date	Final Maturity Date	Current Payment Due in 2002	Authorized	Issued	Cumulative Payments	Outstanding December 31, 2001
Drainage System Refunding Bonds Series 1994 (6 mills)	5.06%	( 5/1;11/1 )	04/01/94	11/01/03	\$1,080,000.00	\$9,410,000.00	\$9,410,000.00	\$7,190,000.00	\$2,220,000.00
Drainage System Bonds Series 1998 (9 mills)	4.84%	( 6/1;12/1 )	12/01/98	12/01/18	\$355,000.00	\$10,000,000.00	\$10,000,000.00	\$955,000.00	\$9,045,000.00
					\$1,435,000.00	\$19,410,000.00	\$19,410,000.00	\$8,145,000.00	\$11,265,000.00
Sewerage Revenue Bonds, 1997	5.36%	( 6/1;12/1 )	06/01/97	06/01/17	\$1,030,000.00	\$30,000,000.00	\$30,000,000.00	\$3,535,000.00	\$26,465,000.00
Sewerage Revenue Bonds, 1998	4.82%	( 6/1;12/1 )	12/01/98	06/01/18	\$915,000.00	\$25,000,000.00	\$25,000,000.00	\$2,095,000.00	\$22,915,000.00
Sewerage Revenue Bonds, 2000-A	5.48%	( 6/1;12/1 )	05/01/00	06/01/20	\$770,000.00	\$26,800,000.00	\$26,800,000.00	\$730,000.00	\$26,070,000.00
Sewerage Revenue Bonds, 2000-B	5.42%	( 6/1;12/1 )	11/01/00	06/01/20	\$605,000.00	\$20,300,000.00	\$20,300,000.00	\$345,000.00	\$19,955,000.00
Sewerage Revenue Bonds, 2001	5.02%	( 6/1;12/1 )	12/01/01	06/01/21	\$930,000.00	\$32,720,000.00	\$32,720,000.00	\$0.00	\$32,720,000.00
					\$4,250,000.00	\$134,820,000.00	\$134,820,000.00	\$6,695,000.00	\$128,125,000.00
Water Revenue Bonds, 1986	6.73%	( 6/1;12/1 )	08/01/86	12/01/03	\$465,000.00	\$31,350,000.00	\$31,350,000.00	\$30,385,000.00	\$965,000.00
Water Revenue Bonds, 1998	4.82%	( 6/1;12/1 )	12/01/98	12/01/18	\$585,000.00	\$16,000,000.00	\$16,000,000.00	\$1,335,000.00	\$14,665,000.00
					\$1,050,000.00	\$47,350,000.00	\$47,350,000.00	\$31,720,000.00	\$15,630,000.00
<b>TOTAL</b>					<b>\$6,735,000.00</b>	<b>\$201,580,000.00</b>	<b>\$201,580,000.00</b>	<b>\$46,560,000.00</b>	<b>\$155,020,000.00</b>

See accompanying independent auditors' report.

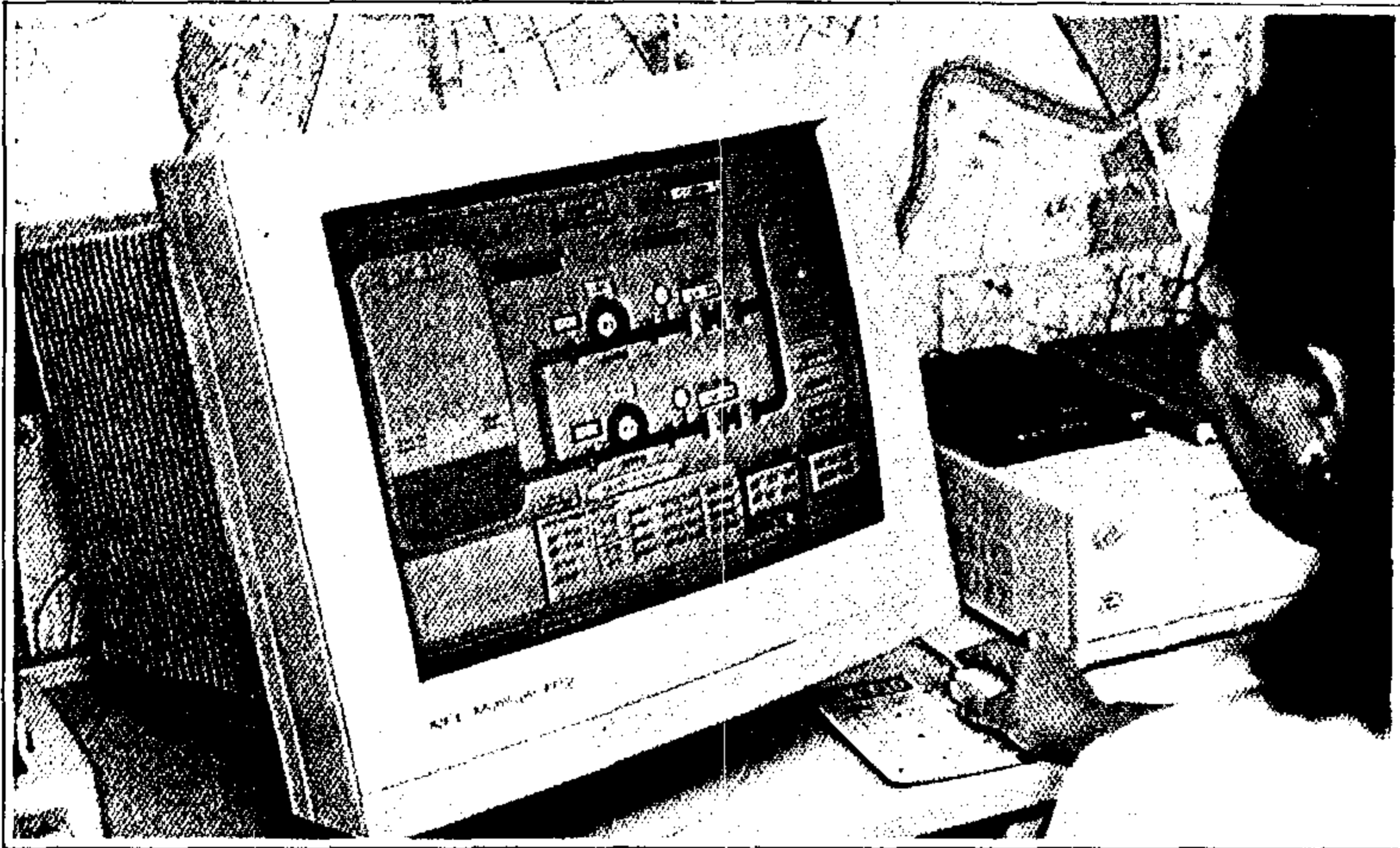
SEWERAGE AND WATER BOARD OF NEW ORLEANS  
 SCHEDULE OF CASH RECEIPTS AND DISBURSEMENTS  
 DEBT SERVICE AND DEBT SERVICE RESERVE  
 REQUIRED BY BOND RESOLUTION

Schedule 4

For the year ended December 31, 2001

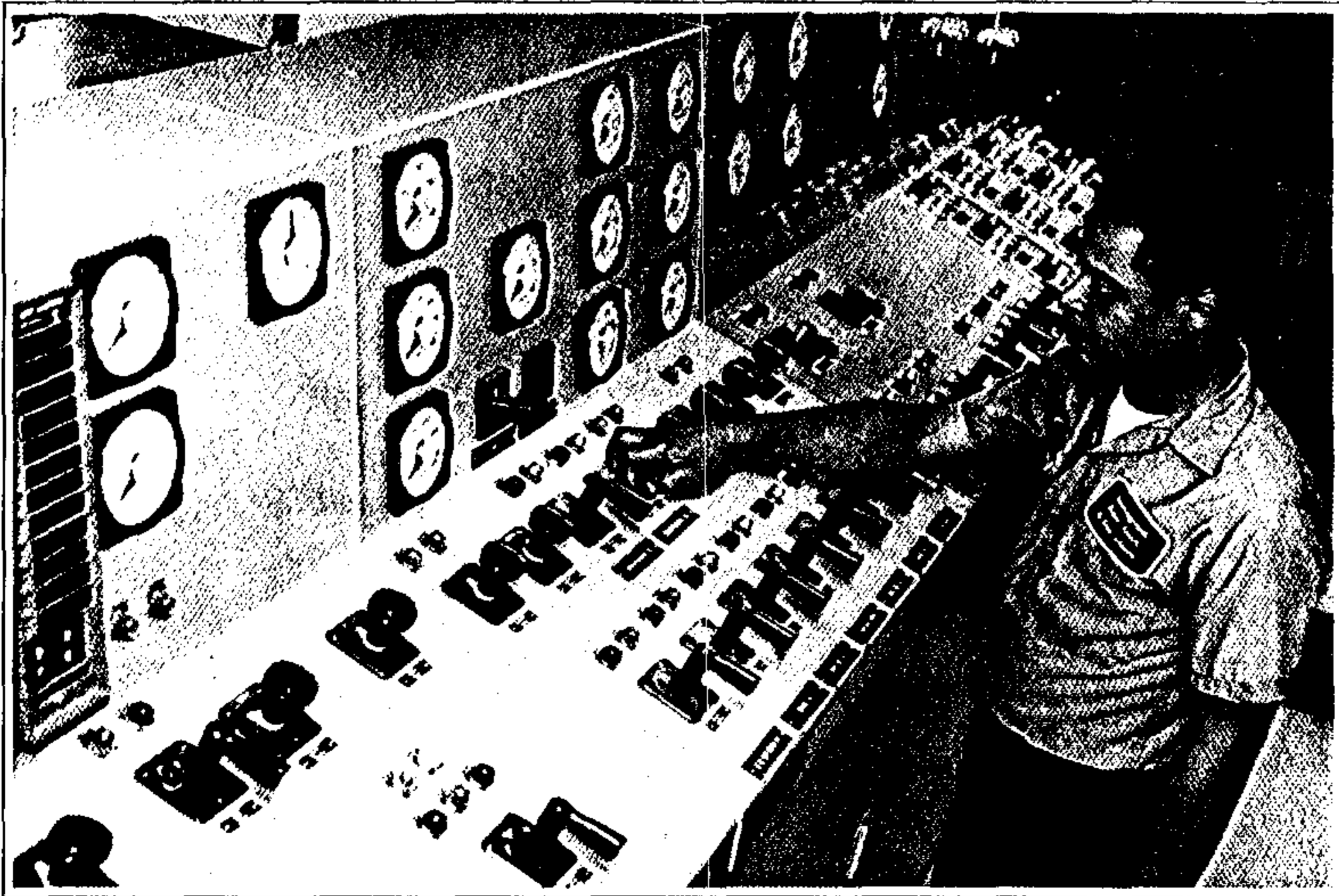
	Debt Service Account			Debt Service Reserve Accounts		
	Water Revenue Bonds	Sewer Revenue Bonds	Total	Water Revenue Bonds	Sewer Revenue Bonds	Total
Cash and investments at beginning of year	\$ 307,720	\$ 2,768,148	\$ 3,075,868	\$ 3,613,436	\$ 8,393,375	\$ 12,006,811
Cash receipts:						
Interest received	-	-	-	242,652	606,781	849,433
Bond proceeds and accrued interest	-	-	-	-	2,874,604	2,874,604
Transfers from operating cash and debt service reserve	1,880,193	8,601,953	10,482,146	-	-	-
Total cash and investments	2,187,913	11,370,101	13,558,014	3,856,088	11,874,760	15,730,848
Cash disbursements:						
Principal and interest payments, cost of issuance and transfers	1,881,818	8,221,628	10,103,446	-	284,039	284,039
Returned to operating cash	-	-	-	242,652	606,781	849,433
Total cash disbursements	1,881,818	8,221,628	10,103,446	242,652	890,820	1,133,472
Cash and investments at end of year	\$306,095	\$3,148,473	\$3,454,568	\$3,613,436	\$10,983,940	\$14,597,376

See accompanying independent auditors' report.



SCADA (Supervisory Control and Data Acquisition System) is a state-of-the-art monitoring and control system which greatly increases the efficiency of the sewage collection system and serves as an early warning device which can bring quick response to problems.

Modern and complex control panels direct electricity to the massive pumps of the Sewerage and Water Board's 22 drainage pumping stations located throughout the City.



SEWERAGE AND WATER BOARD OF NEW ORLEANS

CAPITAL EXPENDITURES BY DEPARTMENT

ENTERPRISE FUND

Last Ten Fiscal Years  
(Unaudited)

Year	Water	Sewer	Drainage	Total
1992	\$ 23,167,589	\$ 13,633,435	\$ 33,702,030	\$ 70,503,054
1993	20,628,162	11,614,008	17,177,080	49,419,250
1994	9,943,739	11,213,412	10,342,235	31,499,386
1995	11,783,818	14,238,109	9,014,933	35,036,860
1996	16,800,825	13,987,572	6,891,995	37,680,392
1997	17,123,523	20,385,974	10,339,467	47,848,964
1998	16,150,082	22,236,831	9,162,998	47,549,911
1999	15,396,620	29,211,401	8,758,788	53,366,809
2000	13,001,122	21,609,266	42,570,615 <sup>1</sup>	77,181,003
2001	12,586,744	51,226,639	52,859,310 <sup>1</sup>	116,672,693

<sup>1</sup> Includes contributed assets

SEWERAGE AND WATER BOARD OF NEW ORLEANS  
REVENUE AND EXPENSES BY SOURCE  
ENTERPRISE FUND  
Last Ten Years  
(Unaudited)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
<b>Revenues</b>										
Charges for service	\$ 93,934,210	\$ 93,371,441	\$ 93,835,767	\$ 93,746,543	\$ 93,288,660	\$ 91,931,554	\$ 93,640,920	\$ 94,838,488	\$ 104,136,436	\$ 102,173,369
Dedicated taxes	30,254,790	27,857,245	28,163,565	28,144,310	28,939,562	30,216,975	32,120,157	32,857,027	36,294,103	36,713,750
Two-mill tax	687,991	132,238	86,103	94,551	17,676	17,366	20,017	11,811	6,348	10,726
Interest on investments	8,192,932	5,554,696	5,556,027	7,813,226	6,729,404	7,949,404	5,877,860	3,468,929	6,087,145	3,956,010
Other revenue	3,243,488	2,184,581	1,911,706	2,091,070	1,930,732	2,051,846	2,709,878	1,975,775	2,508,502	2,349,046
	<u>\$ 136,313,411</u>	<u>\$ 129,100,201</u>	<u>\$ 129,553,168</u>	<u>\$ 131,889,700</u>	<u>\$ 130,906,034</u>	<u>\$ 132,167,145</u>	<u>\$ 134,368,832</u>	<u>\$ 133,152,030</u>	<u>\$ 149,032,534</u>	<u>\$ 145,202,901</u>
<b>Expenses</b>										
Personnel services*	\$ 46,570,285	\$ 44,876,241	\$ 46,636,948	\$ 45,053,530	\$ 47,873,886	\$ 51,540,718	\$ 48,316,625	\$ 46,924,868	\$ 45,955,695	\$ 45,544,701
Services and utilities	24,718,956	27,825,642	28,627,619	29,956,993	32,732,388	32,518,005	31,368,417	33,564,383	40,576,321	43,554,817
Materials and supplies	7,463,804	7,458,111	8,215,530	8,301,900	9,423,809	9,714,832	8,711,943	9,562,704	8,098,236	8,299,514
Special current charges	-	-	-	-	-	-	-	-	-	-
Miscellaneous	204,424	353,098	389,525	-	-	-	-	-	-	-
Depreciation and amortization	17,364,338	19,299,433	22,661,580	23,651,539	25,098,375	26,058,333	26,898,861	27,628,934	28,581,624	34,503,058
Provision for doubtful accounts	1,160,658	1,275,290	1,654,355	1,024,383	1,185,345	995,435	837,177	1,002,267	1,071,194	1,661,267
Provision for claims	280,539	1,572,098	2,738,881	3,862,241	5,265,081	7,154,016	7,199,793	7,165,150	11,379,397	7,452,510
Interest	6,941,579	5,997,197	3,691,800	2,834,930	2,244,315	2,599,896	2,858,224	-	-	-
	<u>\$ 104,704,583</u>	<u>\$ 108,657,110</u>	<u>\$ 114,616,238</u>	<u>\$ 114,685,516</u>	<u>\$ 123,823,199</u>	<u>\$ 130,581,235</u>	<u>\$ 126,191,040</u>	<u>\$ 125,848,306</u>	<u>\$ 135,662,467</u>	<u>\$ 141,015,867</u>

\* - 1991 to 1997 restated for the adoption of GASB Statement No. 27.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

Property Tax  
Levies and Collections by the City of New Orleans

Last Ten Fiscal Years  
(Unaudited - Amounts in Thousands)

Fiscal Year	Total Levied	Collected Through December 31, 2000 (1)		Balance Outstanding at December 31, 2000 (1)		Collected during 2000(1) Amount
		Amount	Percent	Amount	Percent	
1992	\$ 153,070	\$ 150,974	98.63	\$ 2,096	1.37	\$ 115
1993	149,627	147,389	98.50	2,238	1.50	92
1994	146,451	144,128	98.41	2,323	1.59	87
1995	145,005	142,260	98.11	2,745	1.89	165
1996	155,297	151,891	97.81	3,406	2.19	1,056
1997	157,517	152,351	96.72	5,166	3.28	1,574
1998	163,715	157,519	96.22	6,196	3.78	2,085
1999	172,016	163,047	94.79	8,969	5.21	3,484
2000	199,666	181,900	91.10	17,766	8.90	181,900
2001	209,441	3,655	1.75	205,786	98.25	3,655

Real Estate Taxes:

Personal Property Taxes:

1992	\$ 75,053	\$ 70,374	93.77	\$ 4,679	6.23	\$ 34
1993	72,866	68,291	93.72	4,575	6.28	26
1994	74,955	71,131	94.90	3,824	5.10	57
1995	79,258	75,376	95.10	3,882	4.90	278
1996	85,470	77,735	90.95	7,735	9.05	228
1997	88,126	82,950	94.13	5,176	5.87	361
1998	94,777	88,051	92.90	6,726	7.10	406
1999	98,467	92,202	93.64	6,265	6.36	4,138
2000	105,951	95,533	90.17	10,418	9.83	95,533
2001	102,650	50	0.05	102,600	99.95	50

(1) The latest date available for Property Tax Levies and Collections by the City of New Orleans is the year ended December 31, 2001

SEWERAGE AND WATER BOARD OF NEW ORLEANS

Assessed and Estimated Actual Value of Taxable Property

Last Ten Fiscal Years  
(Unaudited)

(Amount in thousands)

Fiscal Year	Net Assessed Value		Total Net Assessed Value	Total Estimated Actual Value(1)	Ratio of Total Net Assessed to Total Estimated Actual Value
	Real Estate	Personal Property			
1991	\$ 1,001,971	\$ 485,333	\$ 1,487,304	\$ 11,823,851	12.6%
1992	935,752	468,707	1,401,459	11,145,422	12.6%
1993	918,234	456,806	1,375,040	10,915,928	12.6%
1994	894,733	467,805	1,362,538	10,787,818	12.6%
1995	885,899	467,699	1,353,598	10,711,391	12.6%
1996	948,777	533,300	1,482,077	11,687,684	12.7%
1997	960,554	548,893	1,509,447	11,892,583	12.7%
1998	977,783	578,256	1,556,039	12,236,013	12.7%
1999	1,013,240	592,741	1,605,981	12,636,496	12.7%
2000	1,159,821	628,860	1,788,681	14,133,694	12.7%

Source: City of New Orleans Annual Financial Report.

2000 - Latest year for which information is available.

(1) Amounts are net of the homestead exemption.



**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**Property Tax Rates - Direct and Overlapping Governments**

**Number of Mills  
(Per \$1,000 of assessed value)**

**Last Ten Fiscal Years  
(Unaudited)**

<b>Fiscal Year</b>	<b>City of New Orleans</b>	<b>Orleans Levee Board</b>	<b>Sewerage &amp; Water Board of New Orleans</b>	<b>Orleans Parish School Board</b>	<b>Audubon Park &amp; Zoo</b>	<b>Total</b>
1992**	75.80	12.01	22.59	45.10	4.55	161.24
1993	75.90	11.29	22.59	45.10	4.55	160.62
1994	75.90	12.01	22.59	45.10	4.55	161.34
1995	75.90	12.01	22.59	45.10	4.55	161.34
1996	77.09	12.01	22.59	45.40	4.55	161.64
1997	77.09	12.01	22.59	45.40	4.55	161.64
1998	77.09	12.01	22.59***	45.40	4.55	161.64
1999	77.09	12.01	22.59***	51.10	4.55	167.26
2000	77.09	12.76	22.59***	52.70	4.55	172.69
2001	77.09	12.76	22.59***	53.05*	4.55	170.04

Source: City of New Orleans

\*The Homestead Exemption is not allowed for the new 9-Mill Police and Fire Tax.

\*\*Millage rates were adjusted upward to compensate for a decrease in assessment values.

\*\*\*3 mills adopted in 1967 Expires in 2017

\*\*\*6 mills adopted in 1978 Expires in 2027

\*\*\*9 mills adopted in 1982 expires in 2032

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**Computation of Direct and Overlapping Debt**

December 31, 2001  
(Unaudited)

	<u>Net Outstanding Debt</u>	<u>Percentage Overlapping</u>	<u>Overlapping Debt</u>
<b>Direct debt:</b>			
Sewerage and Water Board, net of debt service funds (tax bonds only)	<u>\$11,265,000</u>	100%	<u>\$11,265,000</u>
<b>Overlapping debt:</b>			
City of New Orleans	645,271,000	100%	645,271,000
Audubon Park Commission	56,410,000	100%	56,410,000
Orleans Parish School Board (1)	356,364,000	100%	356,364,000
Orleans Levee District (1)	<u>113,680,000</u>	<u>100%</u>	<u>113,680,000</u>
<b>Total overlapping debt</b>	<u><b>1,171,725,000</b></u>	<u><b>100%</b></u>	<u><b>1,171,725,000</b></u>
<b>Total direct and overlapping debt</b>	<u><b>\$1,182,990,000</b></u>	<u><b>100%</b></u>	<u><b>\$1,182,990,000</b></u>

(1) The fiscal year of the Orleans Parish School Board and Orleans Levee District ends on June 30th; overlapping debt is based on June 30, 2001 financial information.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

REVENUE BONDS DEBT SERVICE COVERAGE

WATER BONDS

Last Ten Fiscal Years  
(Unaudited)

Fiscal Year	Operating Revenue	Direct Operating Expenses**	Net Revenue Available for Debt Services		Principal	Debt Services Requirements*		Total	Coverage
						Interest			
1992	\$ 59,135,944	\$ 38,408,432	\$ 20,727,512	\$ 2,175,000	\$ 1,280,910	3,455,910	6.00		
1993	57,513,359	41,585,580	15,927,779	2,385,000	989,625	3,374,625	4.72		
1994	58,012,335	42,424,614	15,587,721	2,385,000	989,625	3,374,625	4.62		
1995	58,376,722	41,523,816	16,852,906	2,405,000	827,445	3,232,445	5.21		
1996	58,535,504	46,732,896	11,802,608	2,335,000	661,500	2,996,500	3.94		
1997	56,867,445	48,513,390	8,354,055	2,055,000	241,850	2,296,850	3.64		
1998	58,076,895	44,793,722	13,283,173	2,590,000	1,023,436	3,613,436	3.68		
1999	58,602,682	46,999,570	11,603,112	2,590,000	1,023,436	3,613,436	3.21		
2000	58,192,717	50,317,637	7,875,080	995,000	846,818	1,841,818	4.28		
2001	54,622,313	48,842,601	5,779,712	1,050,000	782,069	1,832,069	3.15		

\* Largest annual debt services payment

\*\* Excludes depreciation and amortization expenses

SEWERAGE AND WATER BOARD OF NEW ORLEANS

REVENUE BONDS DEBT SERVICE COVERAGE

SEWER BONDS

Last Ten Fiscal Years  
(Unaudited)

Fiscal Year	Operating Revenue	Direct Operating Expenses**	Net Revenue Available for Debt Services	Debt Services Requirements*		Coverage
				Principal	Interest	
1992	\$ 40,542,573	\$ 27,346,066	\$ 13,196,507	\$ 4,400,000	\$ 294,800	2.81
1993	39,675,996	27,055,557	12,620,439	4,400,000	294,800	2.69
1994	No outstanding bonds; not applicable					
1995	No outstanding bonds; not applicable					
1996	No outstanding bonds; not applicable					
1997	42,194,029	32,759,940	9,434,089	2,425,000	65,475	3.79
1998	41,585,754	31,995,277	9,590,477	4,245,000	206,475	2.15
1999	42,694,213	32,726,472	9,967,741	4,245,000	206,475	2.24
2000	52,710,642	36,014,751	16,695,891	7,495,000	945,641	1.98
2001	53,809,598	36,647,234	17,162,364	4,610,000	6,501,567	1.54

\* Largest annual debt services payment

\*\* Excludes depreciation and amortization expenses

SEWERAGE & WATER BOARD OF NEW ORLEANS  
SCHEDULE OF FUTURE DEBT PAYMENTS  
DECEMBER 31, 2001  
(Unaudited)

	Water Revenue Bonds		Sewer Revenue Bonds				Drainage Revenue Bonds		Grand Total	
	Series 1986	Series 1998	Series 1997	Series 1998	Series 2000A	Series 2000B	Series 2001	Series 1986		Series 1998
2002										
Principal	\$ 465,000	\$ 585,000	\$ 1,030,000	\$ 915,000	\$ 770,000	\$ 605,000	\$ 930,000	\$ 1,080,000	\$ 355,000	\$ 6,735,000
Interest	67,550	714,518	1,399,730	1,087,498	1,541,100	1,092,293	1,645,830	113,790	439,756	8,102,085
2003										
Principal	500,000	605,000	1,100,000	950,000	820,000	640,000	1,100,000	1,140,000	370,000	7,225,000
Interest	35,000	678,686	1,348,045	1,031,548	1,493,400	1,048,717	1,579,855	58,710	418,102	7,692,063
2004										
Principal		630,000	1,170,000	985,000	870,000	680,000	1,145,000		390,000	5,870,000
Interest		641,630	1,291,295	973,498	1,442,700	1,002,518	1,512,618		393,532	7,259,791
2005										
Principal		660,000	1,245,000	1,030,000	920,000	715,000	1,195,000		403,000	6,170,000
Interest		603,043	1,223,139	913,048	1,389,000	953,692	1,448,267		371,742	6,901,931
2006										
Principal		690,000	1,330,000	1,075,000	975,000	760,000	1,250,000		425,000	6,503,000
Interest		562,618	1,142,670	859,976	1,332,150	902,068	1,381,030		350,986	6,531,498
2007										
Principal		725,000	1,415,000	1,135,000	1,035,000	800,000	1,305,000		450,000	6,865,000
Interest		534,155	1,056,889	813,969	1,271,850	855,467	1,317,293		333,560	6,183,183
2008										
Principal		770,000	1,490,000	1,200,000	1,095,000	850,000	1,360,000		475,000	7,240,000
Interest		504,068	975,420	764,634	1,207,950	814,218	1,242,370		314,660	5,823,320
2009										
Principal		810,000	1,570,000	1,265,000	1,160,000	895,000	1,420,000		500,000	7,620,000
Interest		471,728	898,135	711,462	1,140,300	769,474	1,164,860		294,472	5,450,431
2010										
Principal		845,000	1,655,000	1,320,000	1,230,000	950,000	1,485,000		520,000	8,005,000
Interest		436,493	815,070	654,750	1,068,600	721,042	1,100,240		272,722	5,068,917
2011										
Principal		885,000	1,745,000	1,380,000	1,305,000	1,005,000	1,545,000		545,000	8,410,000
Interest		398,468	726,234	594,660	992,550	670,980	1,032,808		249,582	4,665,281
2012										
Principal		925,000	1,840,000	1,445,000	1,385,000	1,060,000	1,615,000		570,000	8,840,000
Interest		358,643	632,128	530,194	911,850	619,355	960,092		224,786	4,237,048
2013										
Principal		965,000	1,940,000	1,510,000	1,465,000	1,120,000	1,685,000		595,000	9,280,000
Interest		315,630	532,903	461,294	826,350	564,293	881,700		198,280	3,780,452
2014										
Principal		1,015,000	2,050,000	1,585,000	1,555,000	1,185,000	1,760,000		625,000	9,775,000
Interest		269,793	426,884	388,165	735,750	504,925	798,140		170,018	3,293,675
2015										
Principal		1,060,000	2,170,000	1,655,000	1,645,000	1,255,000	1,840,000		655,000	10,280,000
Interest		221,580	313,200	310,801	639,750	440,858	709,940		140,018	2,776,147
2016										
Principal		1,110,000	2,290,000	1,735,000	1,745,000	1,325,000	1,930,000		685,000	10,820,000
Interest		170,700	192,780	228,791	538,050	371,825	616,610		108,250	2,227,006
2017										
Principal		1,165,000	2,425,000	1,820,000	1,850,000	1,400,000	2,020,000		720,000	11,400,000
Interest		116,865	65,475	141,000	430,200	297,550	517,860		74,000	1,642,950
2018										
Principal		1,220,000		1,910,000	1,960,000	1,480,000	2,120,000		760,000	9,450,000
Interest		59,780		47,750	315,900	218,330	414,360		38,000	1,094,140
2019										
Principal					2,080,000	1,570,000	2,225,000			5,875,000
Interest					194,700	134,475	304,344			633,519
2020										
Principal					2,205,000	1,660,000	2,335,000			6,200,000
Interest					66,150	45,650	187,494			299,294
2021										
Principal							2,455,000			2,455,000
Interest							63,830			63,830
Total										
Principal	965,000	14,665,000	26,465,000	22,915,000	26,070,000	19,955,000	32,720,000	2,220,000	9,045,000	155,020,000
Interest	102,550	7,058,398	13,040,017	10,513,038	17,538,300	12,027,752	18,879,541	172,500	4,394,466	83,726,562
	\$ 1,067,550	\$ 21,723,398	\$ 39,505,017	\$ 33,428,038	\$ 43,608,300	\$ 31,982,752	\$ 51,599,541	\$ 2,392,500	\$ 13,439,466	\$ 238,746,562

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**Property Value, New Construction and Bank Deposits**

Last Ten Fiscal Years  
(Unaudited)

Fiscal Year (3)	New Commercial Construction (1)		New Residential Construction (1)		Bank deposits (2) (in thousands)	Estimated actual Property value (1)
	Number of units	Value (in thousands)	Number of units	Value (in thousands)		
1991	730	43,716	3,413	55,707	6,274,839	11,823,851
1992	1033	77,116	10,203	54,735	6,154,171	11,145,422
1993	233	70,176	11,358	99,151	6,224,997	10,915,928
1994	904	77,500	2,993	98,675	6,068,343	10,787,818
1995	627	219,679	2,595	105,590	6,267,311	10,711,391
1996	160	28,921	2,163	79,469	7,011,280	11,688,518
1997	900	97,325	2,131	62,761	7,965,886	11,892,583
1998	184	49,028	1,962	104,227	7,977,504	12,237,720
1999	294	78,293	2,089	122,342	7,984,473	12,636,496
2000	325	135,665	2,223	136,686	8,225,073	14,133,694

(1) City of New Orleans (2000 latest year for which information is available).

(2) Summary of Deposits (as of June 30, 2001) - bank branches located in New Orleans, Federal Depository Insurance Corporation.

(3) Information for the year ended December 31, 2001 is unavailable.

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

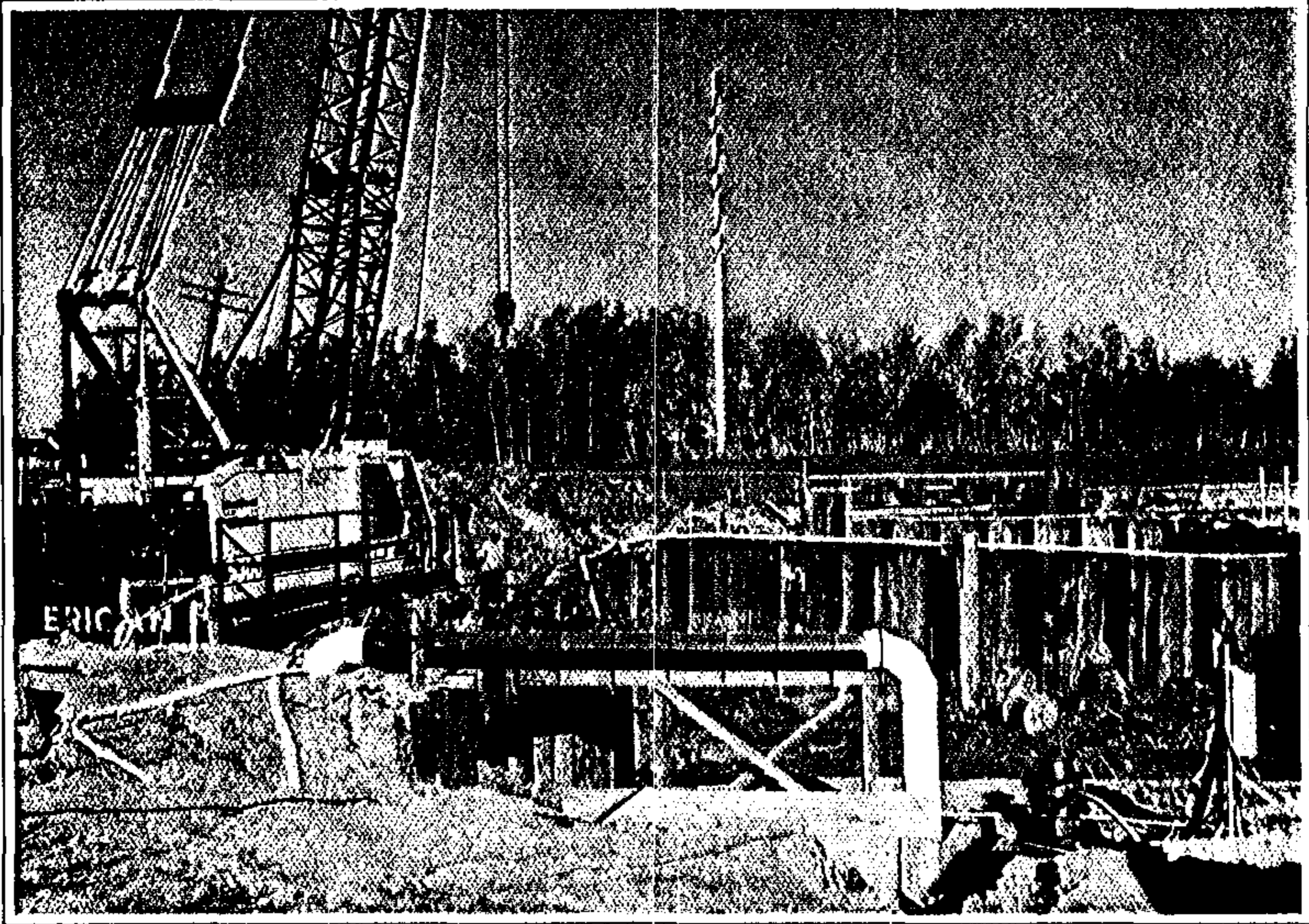
**Ten Largest Taxpayers**

**December 31, 2001 \***  
**(Unaudited)**

<u>Name of Taxpayer</u>	<u>Type of Business</u>	<u>2000 Assessed Value</u>	<u>Percentage of Total Assessed Value</u>
Entergy Service	Electric and gas utilities	\$72,612	4.15%
BellSouth Telecommunications	Telephone utilities	61,875	3.53
Banc One	Financial institution	37,504	2.14
Hibernia National Bank	Banking	30,972	1.77
Whitney National Bank	Banking	26,610	1.52
International River Center	Real Estate	14,241	0.81
Jazzland	Theme Park	14,811	0.85
AT&T Communications	Communication	14,687	0.84
Harrah's Entertainment	Hospitality and gaming	22,688	1.30
Tenet	Managed Care	13,328	0.76
		<u>\$309,328</u>	

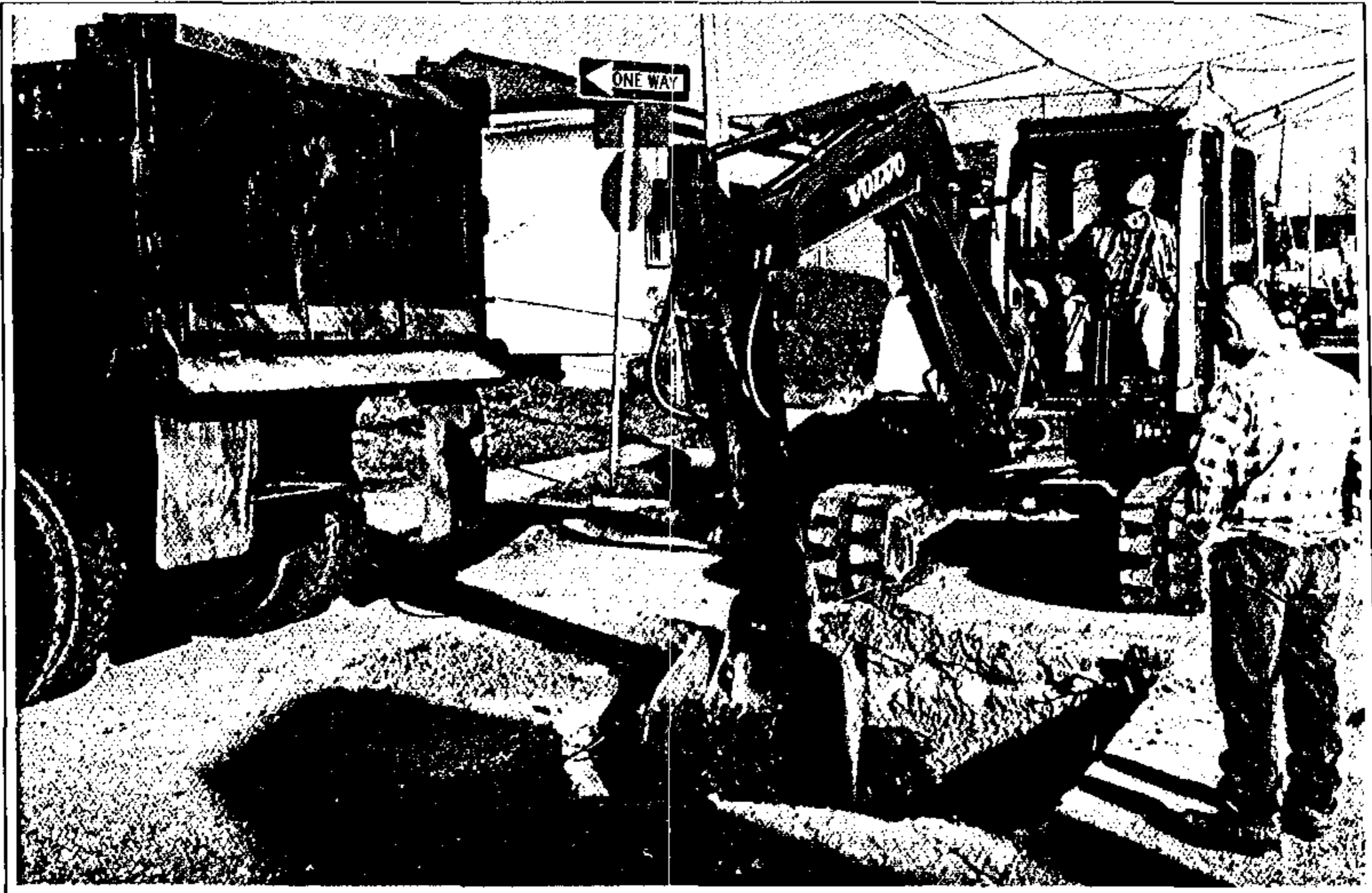
Source: City of New Orleans

( \* ) The latest date available for the Ten Largest Taxpayers in the City of New Orleans is for the year ended December 31, 2000



Construction of a new drainage pumping station is underway in Hollygrove.

The sewage collection system is undergoing extensive repairs under the Sewer System Evaluation and Rehabilitation Program (SSERP).





SEWERAGE AND WATER BOARD OF NEW ORLEANS

2001 ACTUAL CAPITAL EXPENDITURES

WATER DEPARTMENT

<u>C.P.#</u>	<u>WATERWORKS</u>		
110	Normal Extension & Replacement	\$	823,223.21
118	Modernization of Steam System		440,482.01
122	Filter Rehabilitation		273,515.45
135	Improvement of Chemical System		293,588.13
156	Advanced Carrollton Water Treatment		245,158.62
157	Advanced Water Treatment		<u>100,457.63</u>
	TOTAL WATERWORKS	\$	2,176,425.05
	<u>WATER DISTRIBUTION</u>		
214	Normal Extensions & Replacements	\$	1,207,302.43
221	Feeder Main Extension, General		47,762.62
239	Mains in Street Department Contracts		1,713,268.06
215	Rehabilitation - Mains, Hydrants & Services		<u>1,465,327.40</u>
	TOTAL WATER DISTRIBUTION	\$	4,433,660.51
	<u>POWER PROJECTS EMERGENCY AND GENERAL BUDGET</u>		
600	Water Share of Power Projects	\$	109,225.33
700	Water Emergency Reserve		386,895.33
800	Water Share of General Budget Items		<u>5,647,635.34</u>
	TOTAL POWER PROJECTS, EMERGENCY AND GENERAL BUDGET	\$	6,143,756.00
	TOTAL WATER DEPARTMENT	\$	<u>12,753,841.56</u>

NOTE: These figures do not include proration of interest expense.

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**2001 ACTUAL CAPITAL EXPENDITURES**

**SEWERAGE DEPARTMENT**

<b><u>C.P.#</u></b>	<b><u>SEWERAGE SYSTEM</u></b>		
313	Force Mains	\$	13,952.37
317	Normal Extensions & Replacement of Gravity Mains		20,207,015.98
318	Rehabilitation Gravity Sewer System		60,137.60
326	Extensions & Replacement to Sewer Pumping Stations		48,527.50
339	Main in Streets Dept. Contracts		2,031,360.34
347	Second Raw Sewage Channel , EBSTP		5,833,655.49
348	Normal Extensions & Replacements		8,420,420.57
367	Collection System Eval/Survey Uptown		<u>3,537,499.33</u>
	<b>TOTAL SEWERAGE SYSTEM</b>	\$	<b>40,152,569.18</b>
	 <b><u>SEWAGE TREATMENT</u></b>		
381	Modification & Expansion of WBSTP to MGD	\$	<u>5,179,151.69</u>
	<b>TOTAL SEWAGE TREATMENT</b>	\$	<b>5,179,151.69</b>
	 <b><u>POWER PROJECTS AND GENERAL BUDGET</u></b>		
600	Sewerage Share of Power Projects	\$	47,330.19
800	Sewerage Share of General Budget Items		<u>5,003,298.17</u>
	<b>TOTAL POWER PROJECTS AND GENERAL BUDGET</b>	\$	<b>5,050,628.36</b>
	<b>TOTAL SEWERAGE DEPARTMENT</b>	\$	<b><u><u>50,382,349.23</u></u></b>

NOTE: These figures do not include proration of interest expense.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

2001 ACTUAL CAPITAL EXPENDITURES

DRAINAGE DEPARTMENT

<u>C.P.#</u>	<u>CANALS</u>		
403	Improvements to Vehicular Bridges	\$	88,566.72
418	Normal Extension & Replacements		370,249.76
439	SWB Part Drng Tchoupitoulas Paving Project		526,781.14
463	Stormwater Management Plan		54,166.70
471	C.O.E. Drainage Study		1,541,076.89
474	Terpsichore Canal		1,141,089.31
476	Hollygrove Canals		1,565,228.88
477	Eng. Design-Claiborne Manifold		1,736,294.66
486	Napoleon Canal Improvements		1,431,862.66
497	Florida Ave. Canal - Mazant to Peoples		939,586.27
498	Dwyer Canal (St. Charles to Dwyer DPS)		659,817.03
	<b>TOTAL DRAINAGE CANALS</b>	<b>\$</b>	<b>10,054,720.02</b>
	<u>PUMPING STATIONS</u>		
511	Normal Extension & Rep./Stations	\$	223,596.94
520	Suction Canal DPS # 19		4,084,315.47
535	Drainage Pumping Station #6 Improvements		994.55
546	DPS#4 West-Build A 1000 CFS Station		430,952.31
550	Additions to Drainage Pumping Station #1		1,371,628.44
554	Expansion of Dwyer DPS		935,367.64
555	Design Services for Improvement		106,263.21
570	Pritchard DPS		51,600.00
	<b>TOTAL DRAINAGE PUMPING STATIONS</b>	<b>\$</b>	<b>7,204,718.56</b>
	<u>POWER PROJECTS AND GENERAL BUDGET</u>		
600	Drainage Share of Power Projects	\$	436,275.47
800	Drainage Share of General Budget Items		2,424,255.54
	<b>TOTAL POWER PROJECTS AND GENERAL BUDGET</b>		<b>2,860,531.01</b>
	<b>TOTAL DRAINAGE DEPARTMENT</b>	<b>\$</b>	<b>20,119,969.59</b>

NOTE: These figures do not include proration of interest expense.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

2001 ACTUAL CAPITAL EXPENDITURES

POWER PROJECTS

C.P.#	POWER PROJECTS	Water	Sewerage	Drainage	Total
603	New Generator for Algiers Plants	\$ 2,332.33	\$ -	\$ -	\$ 2,332.33
609	Normal Extensions & Replacements Radio Equipment	143.00	374.00	583.00	1,100.00
610	Underground Power Feeders	29,706.74	7,426.69	61,111.23	61,111.23
613	Modification of Steam System	4,716.76	1,641.25	111,400.34	148,533.77
624	Normal Extensions & Replacements	72,326.50	36,163.25	10,038.12	16,396.13
682	Generator G6 (60 HZ)			253,142.78	361,632.53
695	Monitoring and supervisory control for SPS		1,725.00		1,725.00
701	Water Reserve for Emergencies	386,895.33			386,895.33
	<b>TOTAL POWER PROJECTS</b>	<b>\$ 496,120.66</b>	<b>\$ 47,330.19</b>	<b>\$ 436,275.47</b>	<b>\$ 979,726.32</b>

NOTE: These figures do not include proration of interest expense.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

2001 ACTUAL CAPITAL EXPENDITURES

GENERAL BUDGET ITEMS

C.P.#	General Budget Items	Water	Sewerage	Drainage	Total
801	Office Equipment	\$ 1,616.67	\$ 1,616.66	\$ 1,616.67	\$ 4,850.00
803	Property Acquisition			49,271.88	49,271.88
807	Central Yard Improvement	265,181.11	265,181.08	58,929.13	589,291.32
810	Major Equipment Purchases	1,009,952.80	1,009,952.80	504,976.40	2,524,882.00
812	Computer Systems Development	203,734.89	203,734.87	203,734.89	611,204.65
820	Department, Yard and Administrative Expense Charge to Capital	3,737,936.68	3,055,951.06	1,404,087.70	8,197,975.44
823	Purchase of Water Meters	208,645.69	208,645.62		417,291.31
843	Minor Equipment Purchases	197,109.04	196,053.20	190,409.64	583,571.88
859	Plant Maintenance W/O System	22,458.46	3,743.09	11,229.23	37,430.78
860	Water System Improvements		58,419.79		58,419.79
861	Residential Restoration Economic Incentive Program	1,000.00			1,000.00
<b>TOTAL GENERAL BUDGET ITEMS</b>		<b>\$ 5,647,635.34</b>	<b>\$ 5,003,298.17</b>	<b>\$ 2,424,255.54</b>	<b>\$ 13,075,189.05</b>

NOTE: These figures do not include proration of interest expense.

**ANALYSIS OF PUMPING AND POWER DEPARTMENT  
POWER PURCHASED AND PRODUCED  
NATURAL GAS AND FUEL OIL CONSUMED  
TEN YEARS 1992 THROUGH 2001**

YEAR	ELECTRIC POWER PURCHASED		ELECTRIC & STEAM POWER GENERATED BY THE S.&W.B.		NATURAL GAS & FUEL OIL USED TO GENERATE ELECTRIC & STEAM POWER			
	KW-HRS	\$ AMOUNT	KW-HRS	\$ AMOUNT	MCF	\$ AMOUNT	GALLONS	FUEL OIL \$ AMOUNT
1992	87,485,450	\$6,025,363	57,438,710	\$7,084,862	1,294,594	\$4,958,804	128,794	\$109,475
1993	93,652,501	\$6,765,428	60,070,029	\$7,309,564	1,265,415	\$5,967,060	72,784	\$61,866
1994	93,704,141	\$6,676,939	54,855,609	\$7,595,021	1,245,108	\$5,793,025	2,303	\$1,958
1995	55,977,302	\$3,775,458	53,028,000	\$7,537,164	1,284,761	\$5,569,915	4,614	\$3,922
1996	56,941,034	\$4,397,111	48,751,200	\$9,540,981	1,392,980	\$7,721,145	2,169	\$1,844
1997	54,669,463	\$4,299,727	52,999,200	\$8,289,555	1,288,540	\$6,463,536	2,652	\$2,254
1998	67,067,145	\$4,765,576	57,715,200	\$8,731,839	1,487,450	\$6,925,346	27,043	\$22,987
1999	64,070,706	\$4,576,866	36,511,704	\$8,860,755	1,487,610	\$6,836,117	9,550	\$8,118
2000	66,150,146	\$5,278,313	33,126,311	\$11,535,367	1,331,330	\$9,646,417	1,239	\$1,053
2001	71,250,220	\$6,290,661	36,569,748	\$10,699,776	1,547,560	\$8,738,028	1,739	\$1,478
TOTAL	710,968,108	\$52,851,442	491,065,711	\$87,184,884	13,625,348	\$68,619,393	252,887	\$214,955

**POWER PURCHASED AND PRODUCED  
NATURAL GAS AND FUEL OIL CONSUMED - 2001**

	KW-HOURS	COST
ELECTRIC POWER PURCHASED	71,250,220	\$6,290,661
ELECTRIC AND STEAM POWER GENERATED BY THE S.&W.B.*	36,769,748	\$10,699,776
TOTAL	108,019,968	\$16,990,437

NOTE: \* NATURAL GAS CONSUMED IN OPERATION WAS:

1,547,560 MCF AT A COST OF \$ 8,738,028.02

\* FUEL OIL CONSUMED WAS:

1,739 GALLONS AT A COST OF \$ 1,478.02

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**

**WATER PUMPED AND CONSUMED - 2001**

<u>Number of Meters</u>		<u>Gallons</u>	<u>Percent</u>
	Free metered process water to various City departments and charitable institutions:		
9	Display Fountains	15,887,400	
37	Fire Department	10,676,300	
17	Swimming Pools	32,086,800	
13	Libraries	3,013,800	
97	Municipal	108,061,100	
238	Parks and Playgrounds	411,061,400	
62	Police Department	502,388,000	
<u>212</u>	Schools	<u>226,696,200</u>	
685		1,309,871,000	2.72%
207	Free metered process water by Sewerage and Water Board	775,499,600	1.61%
	Allowance for leaks on private property	1,205,263,300	2.50%
	Free unmetered process water:		
	Unmetered use, such as: extinguishment of fires, cleaning streets, flushing sewers, drains, and gutters, cleaning markets and other public buildings	13,522,575,300	28.05%
	Leaks in distribution system as measured by Sonar Survey Technique	8,384,050,000	17.39%
	Water sold to customers	<u>23,004,870,800</u>	47.73%
	<b>Total Water Pumped</b>	<u><b>48,202,130,000</b></u>	<u><b>100.00%</b></u>



**SEWERAGE AND WATER BOARD  
OF NEW ORLEANS**

**GALLONS METERED - PAY WATER CONSUMPTION 2001**

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<u>Month</u>	<u>Monthly Consumption</u>
January	2,159,946,400
February	1,750,412,900
March	1,710,323,500
April	1,721,574,000
May	1,861,847,500
June	2,081,250,600
July	2,029,572,700
August	2,023,076,800
September	2,032,700,500
October	1,832,044,600
November	2,058,085,600
December	<u>1,744,035,700</u>
Gross Total	<u><u>23,004,870,800</u></u>

**SEWERAGE AND WATER BOARD OF NEW ORLEANS  
MONTHLY WATER CHARGES COLLECTED - 2001**

<u>Months</u>	<u>Water Service Charges &amp; Fees</u>	<u>Delinquent Fees</u>	<u>Total</u>
January	\$4,761,992.52	\$67,665.20	\$4,761,992.52
February	4,202,774.86	99,619.93	4,202,774.86
March	4,481,358.20	66,210.10	4,481,358.20
April	4,099,365.89	67,843.64	4,099,365.89
May	4,617,972.50	67,223.35	4,617,972.50
June	4,166,117.99	54,579.48	4,166,117.99
July	4,636,215.96	65,172.32	4,636,215.96
August	4,466,837.33	66,387.23	4,466,837.33
September	3,975,293.88	55,240.80	3,975,293.88
October	4,863,039.39	63,237.46	4,863,039.39
November	3,705,802.06	60,437.89	3,705,802.06
December	4,066,224.61	57,063.12	4,066,224.61
	<u>\$52,042,995.19</u>	<u>\$790,680.52</u>	<u>\$52,042,995.19</u>

**SEWERAGE AND WATER BOARD OF NEW ORLEANS  
MONTHLY SEWERAGE CHARGES COLLECTED - 2001**

<u>Months</u>	<u>Sewerage Service Charges</u>	<u>Delinquent Fees</u>	<u>Total</u>
January	\$4,419,174.84	\$45,224.47	\$4,419,174.84
February	3,890,053.28	66,526.50	3,890,053.28
March	4,033,237.79	44,249.94	4,033,237.79
April	3,789,303.16	45,340.00	3,789,303.16
May	4,211,640.82	44,933.76	4,211,640.82
June	3,765,667.61	36,488.43	3,765,667.61
July	4,252,312.14	43,561.18	4,252,312.14
August	4,022,721.95	44,374.12	4,022,721.95
September	3,644,342.22	36,919.44	3,644,342.22
October	4,664,784.84	42,272.67	4,664,784.84
November	3,440,241.14	40,397.78	3,440,241.14
December	3,805,033.45	38,142.27	3,805,033.45
	<u>\$47,938,513.24</u>	<u>\$528,430.56</u>	<u>\$47,938,513.24</u>

**TABLE I  
CARROLLTON TURBIDITIES**

	River (NTU)					Effluent Settling Reservoirs (NTU)					Filters (NTU)				
	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
Maximum	262	253	276	261	294	16	10	18	10	16	0.7	0.52	0.28	0.28	0.88
Minimum	8	7	6	5	5	0.6	0.7	0.8	1.1	2.0	0.06	0.07	0.07	0.08	0.07
Average	64	86.4	71	52	91	3.2	2.2	4.2	3.5	5.0	0.15	0.13	0.12	0.13	0.15

**TABLE II  
CARROLLTON ALKALINITIES  
PARTS PER MILLION**

	River					Effluent Settling Reservoirs					Filters				
	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
Maximum	155	156	172	159	158	115	130	163	154	150	113	120	140	129	125
Minimum	72	80	84	82	78	50	58	72	65	70	49	64	65	61	55
Average	114	116	132	120	116	81	91	122	111	109	81	91	103	93	91

**TABLE II A  
CARROLLTON HARDNESS  
PARTS PER MILLION**

	NON-CARBONATE HARDNESS										TOTAL HARDNESS									
	RIVER					FILTERS					RIVER					Filters				
	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001	1997	1998	1999	2000	2001
Maximum	86	68	70	72	59	86	73	83	79	75	205	200	221	203	202	183	173	194	184	173
Minimum	18	16	15	21	15	17	24	35	37	31	96	111	118	118	103	85	101	113	115	107
Average	46	37	44	43	38	61	49	55	56	51	160	153	175	164	155	142	135	157	149	142

**TABLE III  
CARROLLTON BACTERIAL CHARACTERISTICS  
Total Coliform Analysis**

2001	River	Effluent of Coagulating and Settling Reservoirs	Plant Tap	Distribution System
Maximum (Colonies / 100 ml)	8,870	510	0	2
Minimum (Colonies / 100 ml)	120	0	0	0
Average (colonies / 100 ml)	1,650	54	0	0
Number of Samples	343	78	344	2,292
Number of Samples Negative	0	11	344	2,288
Number of Samples Positive	343	67	0	4*

\* None of these four total coliform positive samples were fecal coliform positive, and none resulted in any violation of the Total Coliform Rule.

TABLE IV-A

PRINCIPLE RESULTS OF OPERATION OF THE G3 CONVENTIONAL UNITS AT THE CARROLLTON WATER PURIFICATION PLANT FOR THE YEAR  
ENDING: December 31, 2001

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Month		Total Million Gallons of Water Treated During Month	Amount of Water Treated Million Gallons Per 24 Hours	Total pounds of Polymer used at Intake	Polymer at Intake Parts Per Million	Total Pounds of Polymer used in Plant	Polymer in Plant Parts Per Million	Total Pounds of Pure Iron (Fe) used During Month	Pure Iron (Fe) Parts Per Million	Total Pounds of Lime During Month	Lime Parts Per Million	NTU Turbidity of River Water	PPM Alkalinity of River Water	NTU Turbidity of Unit Effluent
January	Max.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	178	135	
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	35	98	
	Avg.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	103	115	
February	Max.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	294	122	
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	64	85	
	Avg.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	153	103	
March	Max.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	230	117	
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	63	78	
	Avg.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	144	90	
April	Max.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	243	117	
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	50	100	
	Avg.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	123	109	
May	Max.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	191	120	
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	19	105	
	Avg.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	91	120	
June	Max.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	252	124	
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	66	106	
	Avg.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	137	116	
July	Max.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	291	142	
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	24	122	
	Avg.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	101	135	
August	Max.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	65	143	
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	12	116	
	Avg.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	35	130	
September	Max.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	57	128	
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	8	115	
	Avg.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	14	122	
October	Max.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	75	158	
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	5	108	
	Avg.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	28	130	
November	Max.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	41	143	
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	13	107	
	Avg.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	25	127	
December	Max.	2,172.28	77.19	16,991	2.12	56,481	4.62	62,747	5.18	0	0.00	252	150	16.0
	Min.	2,172.28	61.42	16,991	0.00	56,481	1.04	62,747	1.14	0	0.00	10	79	2.1
	Avg.	2,172.28	70.07	16,991	0.95	56,481	3.13	62,747	3.48	0	0.00	138	100	6.3
Total		2,172.28		16,991		56,481		62,747		0				
General	Max.	2,172.28	77.19	16,991	2.12	56,481	4.62	62,747	5.16	0	0.00	294	158	16.0
	Min.	2,172.28	61.42	16,991	0.00	56,481	1.04	62,747	1.14	0	0.00	5	78	2.1
	Avg.	2,172.28	70.07	16,991	0.95	56,481	3.13	62,747	3.48	0	0.00	100	117	6.3

TABLE IV-B

PRINCIPLE RESULTS OF OPERATION OF THE G4 CONVENTIONAL UNITS AT THE CARROLLTON WATER PURIFICATION PLANT FOR THE YEAR ENDING:  
December 31, 2001

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Month		Total Gallons of Water Treated During Month	Amount of Water Treated Million Gallons Per 24 Hours	Total pounds of Polymer used at Intake	Polymer at Intake Parts Per Million	Total Pounds of Polymer used in Plant	Polymer in Plant Parts Per Million	Total Pounds of Pure Iron (Fe) used During Month	Pure Iron (Fe) Parts Per Million	Total Pounds of Lime During Month	Lime Parts Per Million	NTU Turbidity of River Water	PPM Alkalinity of River Water	NTU Turbidity of Unit Effluent
January	Max.		74.62		1.70		4.11		4.51		0.00	178	135	12.3
	Min.	1,986.08	53.67	17,013	0.53	40,617	1.37	45,347	1.47	0	0.00	35	96	4.0
	Avg.		64.07		1.03		2.47		2.75		0.00	103	115	7.1
February	Max.		72.54		1.51		2.94		3.37		0.00	294	122	13.6
	Min.	1,751.28	49.33	14,539	0.81	30,581	1.93	34,662	2.13	0	0.00	64	85	3.2
	Avg.		62.55		1.00		2.11		2.39		0.00	153	103	6.2
March	Max.		58.83		2.33		3.66		3.60		0.00	230	117	7.4
	Min.	1,678.04	45.66	28,983	1.81	40,808	1.92	46,805	2.29	0	0.00	63	78	3.2
	Avg.		54.16		1.93		2.92		3.35		0.00	144	90	5.4
April	Max.		55.95		2.01		2.52		3.02		0.00	243	117	9.4
	Min.	1,573.63	47.26	21,074	1.37	24,563	1.43	26,350	1.65	0	0.00	50	100	2.4
	Avg.		52.45		1.80		1.86		2.15		0.00	123	109	4.2
May	Max.		59.20		1.41		1.61		1.87		0.00	161	128	8.1
	Min.	1,635.12	46.91	13,294	0.82	20,613	1.41	23,694	1.63	0	0.00	19	105	2.4
	Avg.		52.75		0.96		1.51		1.74		0.00	91	120	3.9
June	Max.		60.74		0.97		1.59		1.84		0.00	252	124	5.6
	Min.	1,805.46	45.88	9,519	0.47	19,963	1.23	23,121	1.54	0	0.00	66	106	2.7
	Avg.		53.52		0.71		1.49		1.73		0.00	137	116	4.0
July	Max.		83.42		0.67		2.11		2.60		0.00	291	142	6.7
	Min.	1,984.32	49.08	7,961	0.44	25,668	1.41	28,689	1.61	0	0.00	24	122	2.8
	Avg.		64.01		0.48		1.56		1.74		0.00	101	135	4.2
August	Max.		91.46		0.52		1.66		1.82		0.00	65	143	6.0
	Min.	2,200.49	66.75	6,770	0.45	27,724	1.32	31,690	1.64	0	0.00	12	116	2.9
	Avg.		73.35		0.48		1.51		1.73		0.00	35	130	4.2
September	Max.		76.50		0.66		2.62		2.94		0.00	57	128	5.9
	Min.	2,156.82	65.33	9,326	0.28	41,136	1.42	46,278	1.62	0	0.00	6	115	2.4
	Avg.		71.89		0.52		2.28		2.57		0.00	14	122	4.1
October	Max.		83.50		1.60		2.53		3.44		0.00	75	158	14.6
	Min.	2,217.11	61.79	16,584	0.57	33,366	1.36	38,463	1.58	0	0.00	5	108	2.3
	Avg.		71.52		0.90		1.81		2.08		0.00	29	130	6.0
November	Max.		77.63		1.57		1.63		1.80		0.00	41	143	8.3
	Min.	2,169.22	66.17	24,400	0.47	27,365	1.00	30,445	1.15	0	0.00	13	107	2.9
	Avg.		72.31		1.35		1.51		1.68		0.00	25	127	5.6
December	Max.		0.00		0.00		0.00		0.00		0.00	252	150	0.0
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10	78	0.0
	Avg.		0.00		0.00		0.00		0.00		0.00	138	100	0.0
Total		20,958.55		169,493		332,422		377,554		0				
General	Max.		91.46		2.33		4.11		4.51		0.00	284	158	14.6
	Min.	1,573.63	45.66	7,961	0.28	19,963	1.00	23,121	1.15	0	0.00	5	78	2.3
	Avg.	1,905.32	63.17	15,408	1.03	30,220	1.93	34,323	2.23	0	0.00	100	117	5.6

TABLE IV-C

PRINCIPLE RESULTS OF OPERATION OF THE L3 CONVENTIONAL UNITS AT THE CARROLLTON WATER PURIFICATION PLANT FOR THE YEAR ENDING:  
December 31, 2001

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Month		Total Million Gallons of Water Treated During Month	Amount of Water Treated Million Gallons Per 24 Hours	Total pounds of Polymer used at Intake	Polymer at Intake Parts Per Million	Total Pounds of Polymer used in Plant	Polymer in Plant Parts Per Million	Total Pounds of Pure Iron (Fe) used During Month	Pure Iron (Fe) Parts Per Million	Total Pounds of Lime During Month	Lime Parts Per Million	NTU Turbidity of River Water	PPM Alkalinity of River Water	NTU Turbidity of Unit Effluent
January	Max.		40.92		2.11		0.00		5.61	1,015,189	171.31	178	135	46.1
	Min.	956.46	23.34	4,982	0.00	0	0.00	40,316	4.20		96.20	35	96	4.3
	Avg.		30.85		0.68		0.00		5.06		127.61	103	115	20.1
February	Max.	845.61	24.46	7,133	1.75	0	0.00	35,276	5.37	883,225	176.92	294	122	28.8
	Min.		30.20		0.51		0.00		4.45		90.18	64	85	3.6
	Avg.		33.96		1.02		0.00		5.01		126.18	153	103	16.7
March	Max.	875.42	22.67	14,735	3.30	0	0.00	36,773	5.55	904,144	157.72	230	117	28.1
	Min.		28.24		1.18		0.00		4.14		89.45	63	78	5.7
	Avg.		34.46		2.04		0.00		5.04		124.56	144	90	12.8
April	Max.	851.89	23.92	8,617	2.07	0	0.00	36,606	6.03	1,562,267	277.66	243	117	12.5
	Min.		28.40		0.77		0.00		4.40		128.90	50	100	2.4
	Avg.		36.90		1.24		0.00		5.18		220.48	123	109	7.5
May	Max.	927.11	24.38	5,943	3.56	0	0.00	39,462	7.14	1,914,072	308.59	161	128	8.1
	Min.		29.91		0.15		0.00		3.31		216.32	19	105	1.4
	Avg.		35.05		0.82		0.00		5.11		249.34	91	120	3.1
June	Max.	844.25	23.00	6,872	1.87	0	0.00	35,713	5.35	1,818,005	321.67	252	124	3.7
	Min.		28.14		0.41		0.00		4.86		211.89	66	108	1.3
	Avg.		45.98		1.01		0.00		5.08		261.47	137	116	2.2
July	Max.	1,013.11	23.34	3,152	0.84	0	0.00	41,203	5.30	2,076,188	333.29	291	142	6.7
	Min.		32.68		0.15		0.00		4.18		182.02	24	122	1.1
	Avg.		46.88		0.41		0.00		4.90		256.54	101	135	2.3
August	Max.	1,246.69	37.13	1,191	0.50	0	0.00	51,369	5.15	1,915,657	222.41	65	143	8.4
	Min.		40.22		0.07		0.00		3.22		141.72	12	116	1.0
	Avg.		42.09		0.14		0.00		4.94		184.53	35	130	2.1
September	Max.	1,195.87	36.67	1,051	0.27	0	0.00	50,483	5.96	1,202,052	169.89	57	128	6.7
	Min.		39.86		0.00		0.00		4.91		95.36	6	115	1.1
	Avg.		49.17		0.11		0.00		5.06		120.65	14	122	2.3
October	Max.	1,258.87	34.17	2,618	0.91	0	0.00	50,942	5.10	1,244,001	135.57	75	158	8.7
	Min.		40.61		0.00		0.00		2.92		96.20	5	108	1.7
	Avg.		42.09		0.25		0.00		4.86		118.72	29	130	4.7
November	Max.	1,195.81	38.00	0	0.00	0	0.00	49,898	5.19	1,263,144	157.48	41	143	20.0
	Min.		39.86		0.00		0.00		4.89		96.74	13	107	5.2
	Avg.		41.09		0.00		0.00		5.00		126.48	25	127	10.6
December	Max.	1,213.24	32.54	0	0.50	21,090	4.57	45,941	5.06	1,219,159	117.34	252	150	30.9
	Min.		39.14		0.00		0.00		3.60		66.35	10	79	3.1
	Avg.		34.45		0.00		2.09		4.53		120.60	138	100	14.0
Total		12,424.33		56,294		21,090		513,962		17,017,123				
General	Max.	1,258.87	49.17	14,735	3.58	21,090	4.57	51,369	7.14	2,076,188	333.29	294.0	158	46.1
	Min.	844.25	22.67	0	0.00	0	0.00	35,276	2.92	883,225	68.35	5.0	78	1.0
	Avg.	1,035.36	34.45	4,691	0.78	1,758	0.19	42,832	4.88	1,418,094	169.57	100.0	117	9.4

TABLE IV-D

PRINCIPLE RESULTS OF OPERATION OF THE LA CONVENTIONAL UNITS AT THE CARROLLTON WATER PURIFICATION PLANT FOR THE YEAR  
ENDING: December 31, 2001

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Month		Total Million Gallons of Water Treated During Month	Amount of Water Treated Million Gallons Per 24 Hours	Total pounds of Polymer used at Intake	Polymer at Intake Parts Per Million	Total Pounds of Polymer used in Plant	Polymer in Plant Parts Per Million	Total Pounds of Pure Iron (Fe) used During Month	Pure Iron (Fe) Parts Per Million	Total Pounds of Lime During Month	Lime Parts Per Million	NTU Turbidity of River Water	PPM Alkalinity of River Water	NTU Turbidity of Unit Effluent
January	Max.		43.34		1.73		4.20		4.86		0.00	178	135	13.9
	Min.	1,003.56	25.80	8,620	0.51	20,480	1.13	23,735	1.51	0	0.00	35	98	4.5
	Avg.		32.37		1.04		2.40		2.79		0.00	103	115	8.9
February	Max.		35.58		1.71		3.41		3.45		0.00	294	122	16.7
	Min.	819.69	24.33	7,215	0.89	14,806	1.89	17,372	2.14	0	0.00	64	85	3.1
	Avg.		29.27		1.05		2.15		2.53		0.00	153	103	7.6
March	Max.		33.61		2.51		3.53		4.56		0.00	230	117	9.0
	Min.	898.63	25.17	15,273	1.85	21,331	1.88	25,879	2.37	0	0.00	63	78	4.4
	Avg.		28.99		2.04		2.86		3.44		0.00	144	90	6.0
April	Max.		33.05		2.28		2.87		3.12		0.00	243	117	8.1
	Min.	868.34	25.21	11,859	1.24	14,303	1.41	16,138	1.54	0	0.00	50	100	4.1
	Avg.		28.94		1.66		1.99		2.24		0.00	123	109	5.9
May	Max.		35.55		1.45		1.84		2.03		0.00	161	128	7.2
	Min.	832.28	24.75	7,906	0.96	11,866	1.22	13,828	1.60	0	0.00	19	105	2.5
	Avg.		30.07		1.02		1.51		1.78		0.00	91	120	5.2
June	Max.		37.34		1.06		1.68		2.00		0.00	252	124	9.1
	Min.	923.13	23.00	5,629	0.48	11,729	1.40	13,869	1.56	0	0.00	66	106	2.2
	Avg.		30.77		0.74		1.52		1.78		0.00	137	116	5.7
July	Max.		38.75		0.81		1.77		2.56		0.00	291	142	7.0
	Min.	482.80	10.94	2,084	0.42	6,380	1.32	7,568	1.57	0	0.00	24	122	3.2
	Avg.		25.94		0.50		1.56		1.84		0.00	101	135	5.0
August	Max.		0.00		0.00		0.00		0.00		0.00	65	143	0.0
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	12	116	0.0
	Avg.		0.00		0.00		0.00		0.00		0.00	35	130	0.0
September	Max.		0.00		0.00		0.00		0.00		0.00	57	129	0.0
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	6	115	0.0
	Avg.		0.00		0.00		0.00		0.00		0.00	14	122	0.0
October	Max.		0.00		0.00		0.00		0.00		0.00	75	158	0.0
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	5	108	0.0
	Avg.		0.00		0.00		0.00		0.00		0.00	29	130	0.0
November	Max.		0.00		0.00		0.00		0.00		0.00	41	143	0.0
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	13	107	0.0
	Avg.		0.00		0.00		0.00		0.00		0.00	25	127	0.0
December	Max.		0.00		0.00		0.00		0.00		0.00	252	150	0.0
	Min.	0.00	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10	79	0.0
	Avg.		0.00		0.00		0.00		0.00		0.00	138	100	0.0
Total		5,938.51		58,666		100,701		117,990		0				
General	Max.		43.34	15,273	2.51	21,331	4.20	25,879	4.86	0	0.00	294.0	158	16.7
	Min.	1,003.56	10.94	2,084	0.42	6,380	1.13	7,568	1.51	0	0.00	5.0	78	2.2
	Avg.		29.66	8,381	1.23	14,388	2.06	16,856	2.44	0	0.00	100.0	117	6.6

TABLE IV-E

MONTHLY SUMMARY OF COMBINED OPERATION OF CONVENTIONAL UNITS AT THE CARROLLTON WATER PURIFICATION PLANT FOR THE YEAR ENDING: December 31, 2001

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Month	Max. Min. Avg.	Total Million Gallons of Water Treated During Month	Amount of Water Treated Million Gallons Per 24 Hours	Total pounds of Polymer used at Intake	Total Pounds of Polymer used in Plant	Total Pounds of Fluoride (100%) used During Month	Fluoride Parts Per Million	Total Pounds of Pure Iron (Fe) used During Month	Total Pounds of Lime Used During Month	Total Pounds of Chlorine Used During Month	Chlorine Parts Per Million	Total Pounds of Anhydrous Ammonia Used During Month	Anhydrous Ammonia Parts Per Million	Total Pounds of Polyphosphate Used During Month	Polyphosphate Parts Per Million	Alkalinity of Filtered Water Parts Per Million	Estimated High Lift Pumpage Total M.G. M.G.D.
January	147.77 113.54 127.47	3,961.08	165.90	30,615	61,067	25,868	1.02 0.63 0.79	109,400	1,015,189	190,864	6.14 5.71 5.80	41,399	1.34 1.17 1.26	17,312	0.54 0.49 0.53	113 79 96	3,920.62 114.63 126.47
February	137.03 111.90 127.67	3,571.35	148.80	28,887	45,387	22,348	0.92 0.62 0.78	87,310	883,225	167,488	6.12 5.65 5.88	34,922	1.29 1.17 1.23	15,018	0.56 0.51 0.53	108 73 87	3,438.30 112.73 122.80
March	139.16 114.05 125.81	3,894.74	162.28	57,001	62,137	23,975	1.07 0.71 0.83	109,257	904,144	175,731	6.58 5.84 6.10	34,254	1.36 1.05 1.19	15,179	0.58 0.47 0.53	94 67 76	3,622.90 101.53 116.87
April	135.70 111.92 125.34	3,759.94	156.66	41,660	38,872	22,216	1.00 0.60 0.81	81,095	1,562,287	179,955	7.27 5.99 6.51	31,729	1.30 1.04 1.15	14,445	0.55 0.49 0.53	100 80 88	3,477.12 102.42 115.90
May	136.93 118.35 126.10	3,908.94	162.87	27,143	32,279	24,209	0.95 0.70 0.83	76,984	1,914,072	205,019	8.02 5.97 7.00	41,422	1.60 1.21 1.41	15,348	0.54 0.45 0.52	114 91 98	3,723.92 106.03 120.13
June	149.29 114.79 126.19	3,763.41	156.85	22,020	31,692	23,172	0.99 0.56 0.82	72,503	1,818,005	181,077	7.21 5.69 6.45	36,273	1.44 1.14 1.29	14,799	0.54 0.51 0.53	113 86 99	3,674.96 97.44 122.50
July	142.26 108.70 126.08	3,907.08	162.79	13,197	32,048	24,809	1.02 0.58 0.85	77,460	2,076,188	176,827	7.72 5.85 6.08	35,266	1.43 1.18 1.21	14,966	0.62 0.44 0.52	116 89 104	3,821.82 100.15 123.28
August	153.93 116.76 126.28	3,835.68	159.61	9,961	27,724	24,946	0.95 0.73 0.85	83,049	1,915,657	175,798	6.07 5.92 5.99	35,325	1.29 1.19 1.20	14,675	0.54 0.48 0.50	98 61 80	3,880.03 117.10 125.16
September	133.32 114.87 125.86	3,775.80	157.16	10,377	41,136	24,011	1.01 0.73 0.86	96,761	1,202,062	167,181	6.03 5.87 5.98	33,414	1.21 1.71 1.19	13,683	0.53 0.38 0.49	110 60 87	3,608.13 113.67 120.27
October	143.12 107.75 125.97	3,903.18	162.62	19,202	33,386	23,323	0.95 0.70 0.81	89,425	1,244,001	174,234	6.26 5.95 6.01	34,827	1.24 1.19 1.20	14,382	0.53 0.49 0.50	111 82 94	3,728.23 111.76 120.27
November	132.47 119.06 126.01	3,773.54	157.27	24,400	27,365	21,327	0.85 0.64 0.76	80,341	1,263,144	168,758	6.27 5.85 6.01	33,829	1.26 1.17 1.21	14,878	0.55 0.52 0.53	114 78 96	3,690.21 114.35 123.01
December	131.14 113.53 125.17	3,880.14	161.68	16,991	77,571	21,758	0.97 0.66 0.77	108,688	1,219,159	170,076	6.44 5.86 6.02	34,155	1.29 1.19 1.21	15,222	0.75 0.50 0.54	122 64 82	3,904.12 112.85 122.71
Total	145.94 113.53 125.17	45,934.88	165.90	301,444	510,694	281,962	0.95 0.66 0.77	1,072,273	17,017,123	2,132,008	6.27 5.85 6.02	426,815	1.26 1.17 1.21	179,907	0.54 0.48 0.52	111 82 94	44,390.4 114.35 122.71
General	145.94 113.53 125.17	3,961.08 3,571.35 3,827.91	165.90 148.80 156.66	57,001 28,887 25,120	61,067 45,387 42,958	25,868 22,348 23,497	0.95 0.66 0.81	89,356	1,418,094	177,667	6.23	35,568	1.26	14,992	0.52	92	3,699.20 121.20



TABLE V

PRINCIPLE RESULTS OF OPERATION OF THE ALGIERS WATER PURIFICATION PLANT FOR THE YEAR ENDING: December 31, 2001

1 Month	2 Max. Min. Avg.	3 Total Million Gallons of Water Treated During Month	4 Amount of Water Treated Million Gallons Per 24 Hours	5 Total Pounds of Polyethylene Glycol Used During Month	6 Polyethylene Glycol Parts Per Million	7 Total Pounds of Fluoride (100%) Used During Month	8 Fluoride Parts Per Million	9 Total Pounds of Pure Iron (Fe) Used During Month	10 Pure Iron (Fe) Parts Per Million	11 Total Pounds of Lime Used During Month	12 Lime Parts Per Million	13 Total Pounds of Anhydrous Ammonia Used During Month	14 Anhydrous Ammonia Parts Per Million	15 Total Pounds of Chlorine Used During Month	16 Chlorine Parts Per Million	17 Total Pounds of Polyphosphate Used During Month	18 Polyphosphate Parts Per Million	19 NTU Turbidity of Clarifier Effluent	20 PPM Alkalinity of Filtered Water	21 High LR Passage		
																				Total M.G.D.	M.G.D.	
January	15.50 10.00 11.35	351.92	15.50	9,499	3.90	2,192	0.96	19,997	6.49	137,551	20.27	3,197	1.44	16,172	7.37	1,440	0.63	5.5	104	15.99	352.32	
February	12.00 10.00 10.99	289.32	12.00	10,095	4.00	1,930	0.89	16,328	7.13	192,803	38.49	2,901	1.22	15,487	6.70	1,350	0.80	3.4	74	12.00	288.08	
March	15.16 10.00 10.43	323.28	15.16	12,227	3.90	2,017	0.80	17,410	6.92	148,850	41.59	3,173	1.37	17,470	7.39	1,550	0.80	4.0	66	11.88	319.01	
April	12.00 10.00 10.81	324.16	12.00	12,446	4.97	2,039	0.83	17,240	7.33	171,927	46.40	2,999	1.22	16,591	6.83	1,500	0.80	4.0	65	12.00	321.60	
May	15.76 10.00 11.72	363.18	15.76	15,111	5.59	2,273	0.40	16,322	7.17	212,845	49.65	3,476	1.38	19,053	7.20	1,500	0.80	1.8	66	14.72	367.27	
June	12.54 9.01 10.63	319.00	12.54	14,909	5.57	2,181	1.00	17,578	7.17	144,467	42.93	3,455	1.15	16,993	7.72	1,500	0.80	1.4	82	12.54	318.99	
July	13.02 8.51 11.27	349.48	13.02	16,051	4.68	2,359	0.66	19,355	5.33	200,110	48.92	3,843	1.05	15,639	3.29	1,650	0.39	0.7	50	8.51	349.48	
August	15.96 8.00 10.22	316.98	15.96	14,585	5.94	2,318	1.20	19,144	9.14	174,900	66.54	3,903	1.63	12,949	6.85	1,500	0.75	3.6	71	15.94	304.33	
September	12.59 6.00 9.67	290.22	12.59	5,603	2.81	1,788	1.28	15,785	9.61	144,538	75.54	3,154	1.59	15,422	7.91	1,420	0.80	7.1	76	12.00	298.01	
October	12.00 6.00 9.93	307.74	12.00	4,583	2.43	1,985	0.94	17,307	8.47	152,524	43.88	3,111	1.37	15,461	6.82	1,320	0.80	4.6	76	12.50	307.71	
November	13.00 6.00 10.10	302.90	13.00	4,478	1.87	2,255	1.20	17,061	6.86	134,294	64.30	2,987	1.36	15,745	6.90	1,480	0.80	3.2	91	12.51	300.71	
December	11.26 6.00 9.40	291.42	11.26	6,379	3.17	1,863	0.97	17,225	6.88	89,504	70.10	2,753	1.32	15,289	7.36	1,380	1.00	4.4	91	10.05	294.21	
Total		3,539.54		125,995		25,180		208,370		1,904,333		36,531		182,231		17,620					3611.73	
General		363.16		16,051		2,359		19,144		212,845		3,843		19,053		1,650		1.00			104	352.32
		290.22		4,478		1,788		15,785		89,504		2,753		12,949		1,320		0.33			34	298.01
		319.98		10,497		2,098		17,304		159,694		3,211		16,019		1,468		0.57			63	317.04

TABLE VI-A

MONTHLY SUMMARY OF NEW ORLEANS FILTER OPERATIONS FOR THE YEAR ENDING: December 31, 2001

1 Month	2 Total Million Gallons Water Filtered During Month		3 Total Number of Runs		4 Length of Runs in Hours		5 Million Gallons of Water Filtered Per Run		6 Million Gallons of Wash Water Used		7 Million Gallons of Wash Water Used Per Run		8 Percentage of Wash Water Used Per Run		9 Million Gallons Filtered Per Acre Per Day		
	Max.	Min.	Avg.	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New	Old	New
January	2,025,558	1,867,442	72	128	236	37,809	21,500	4,325	2,332	50,800	38,810	0.708	0.309	6.32	4.17	71,770	70,869
February	1,911,647	1,802,506	82	109	136	42,034	28,878	4,353	2,205	43,800	35,244	0.707	0.323	3.37	5.87	72,234	67,120
March	1,864,800	1,777,796	86	123	211	39,301	23,750	4,007	2,141	46,480	38,720	0.894	0.323	3.98	3.29	66,482	65,172
April	1,798,681	1,778,145	80	115	162	27,718	14,454	3,633	2,278	35,410	31,754	0.890	0.278	2.47	2.23	60,286	60,342
May	1,998,811	1,837,663	72	123	241	40,638	21,250	4,243	2,255	35,700	42,474	0.488	0.345	6.11	3.94	70,453	55,942
June	1,978,707	1,788,009	82	112	258	52,727	27,000	4,377	2,281	35,700	37,198	0.544	0.332	4.97	3.95	72,632	69,434
July	2,016,882	1,849,186	80	125	282	47,785	24,842	4,291	2,247	32,000	43,782	0.533	0.350	3.40	3.50	71,205	68,388
August	2,119,457	1,903,913	78	117	230	40,538	28,000	4,346	2,325	41,852	53,013	0.951	0.453	3.19	4.50	72,116	70,779
September	1,942,971	1,788,788	88	123	170	33,928	23,875	4,802	2,311	47,370	50,416	0.677	0.409	3.98	4.83	78,388	70,347
October	1,914,827	1,918,363	72	121	175	36,575	28,675	4,658	2,307	45,200	41,231	0.628	0.341	7.70	5.53	77,285	70,229
November	1,803,874	1,898,502	88	118	188	38,850	22,000	4,716	2,381	42,700	44,782	0.628	0.379	5.01	4.84	78,257	72,478
December	1,987,484	1,916,351	88	124	195	44,150	28,858	5,088	2,288	44,360	44,858	0.682	0.363	2.27	2.38	84,115	88,677
Total	23,441,369	21,928,672	808	1,438	5,696	1,011,445	575,982	52,620	27,352	501,372	594,340	7,386	4,203	100.67	103.43	873,178	832,584
General	2,119,457	1,918,363	78	117	230	40,538	28,000	4,346	2,325	41,852	53,013	0.951	0.453	3.19	4.50	72,116	70,779
	1,798,681	1,802,506	80	109	136	42,034	28,878	4,353	2,205	43,800	35,244	0.707	0.323	3.37	5.87	72,234	67,120
	1,953,449	1,827,223	87	120	198	46,088	28,088	4,385	2,279	41,781	42,028	0.816	0.350	2.80	2.87	72,785	68,383

TABLE VI-B

MONTHLY SUMMARY OF ALGIERS FILTER OPERATIONS FOR THE YEAR ENDING: December 31, 2001

1	2	3	4	5	6	7	8	9	10
Month		Total Million Gallons Water Filtered During Month	Total Number of Runs	Length of Runs in Hours	Million Gallons of Water Filtered Per Run	Million Gallons Per Day Per Filter	Total Amount in Million Gallons of Wash Water Used	Million Gallons of Wash Water Used Per Run	Percentage of Wash Water Used Per Run
January	Max. Min. Avg.	386.05	57	192 140 167	9,835 3,834 6,772	1.04	10,080	0.178	4.61 1.80 2.61
February	Max. Min. Avg.	269.50	42	195 164 174	9,167 3,317 6,416	0.80	8,120	0.193	6.20 2.11 3.01
March	Max. Min. Avg.	331.82	48	195 169 191	11,171 3,267 6,913	0.89	8,440	0.176	5.38 1.57 2.54
April	Max. Min. Avg.	323.57	46	196 186 191	10,104 3,938 7,034	0.90	9,700	0.210	5.33 2.08 2.99
May	Max. Min. Avg.	318.35	47	202 169 188	10,042 5,449 6,773	0.86	9,610	0.204	3.75 2.04 3.02
June	Max. Min. Avg.	341.27	48	195 172 189	10,345 4,396 7,110	0.95	9,940	0.207	4.71 2.00 2.91
July	Max. Min. Avg.	330.20	45	193 144 190	10,884 2,988 7,337	0.89	9,620	0.214	7.15 1.96 2.91
August	Max. Min. Avg.	318.05	45	212 188 191	10,881 3,475 7,068	0.85	8,840	0.196	5.66 1.80 2.78
September	Max. Min. Avg.	283.46	43	244 147 197	12,439 3,958 6,592	0.79	8,260	0.192	4.85 1.54 2.91
October	Max. Min. Avg.	313.01	54	193 140 165	10,626 1,675 5,797	0.84	10,610	0.196	11.72 1.84 3.39
November	Max. Min. Avg.	307.40	51	194 143 172	10,318 3,234 6,027	0.85	9,570	0.188	5.80 1.82 3.11
December	Max. Min. Avg.	309.64	60	170 122 152	9,967 1,825 5,160	0.83	9,800	0.163	8.95 1.64 3.17
Total		3,832.32	586			10.49	112,590	2.315	
General	Max. Min. Avg.	386.05 269.50 319.36	60 42 49	244 122 179	12,439 1,675 6,837	1.04 0.79 0.87	10,610 8,120 9,383	0.214 0.163 0.193	11.72 1.54 3.66

TABLE VII  
 FIVE YEAR ANALYSIS DATA (1997-2001) FOR NEW ORLEANS  
 DRINKING WATER PURIFICATION SYSTEM

PARAMETER	MISSISSIPPI RIVER (Before Purification)			FINISHED WATER (After Purification)		
	MAX	MIN	AVG	MAX	MIN	AVG
Total Alkalinity (ppm as CaCO3)	172	72	120	136	53	91
Total Hardness (ppm as CaCO3)	221	96	181	192	102	147
Noncarbonate Hardness (ppm as CaCO3)	86	15	41	110	32	58
Calcium Hardness (ppm as CaCO3)	153	70	110	138	55	108
Magnesium Hardness (ppm as CaCO3)	98	8	51	90	14	39
Nephelometric Turbidity (N.T.U.)	294	5	73	0.48	0.07	0.18
Jackson Turbidity (J.T.U.)	410	24	109			
pH	8.59	7.34	7.98			
Chloride (ppm)	59	16	35	54	16	35
Fluoride (ppm)	0.48	0.10	0.26	1.35	0.26	0.96
Total Dissolved Solids (ppm)	401	95	245	351	96	229
Total Suspended Solids (ppm)	312	26	128			
Free Chlorine Residual (ppm as CL2)				0.75	0.00	0.12
Total Chlorine Residual (ppm as CL2)				4.64	0.12	3.18
Ammonia (ppm as N)				1.20	0.02	0.18
Ortho Phosphate (ppm as PO4)	0.46	0.08	0.26	0.39	0.06	0.23
Total Phosphate (ppm as PO4)	0.56	0.24	0.38	0.62	0.21	0.43
Sulfate (ppm as SO4)	51.2	26.5	38.8	50.6	27.1	38.5
Silica (ppm as SiO2)	8.2	2.6	5.7	5.6	3.9	4.8
Nitrate (ppm as N)	3.94	0.29	1.93	3.22	0.68	1.77
Nitrite (ppm as N)	0.29	0.00	0.05	0.91	0.00	0.05
Color (Scale Units)	25	10	18	20	5	11
Conductivity (umhos/cm)	573	200	376	537	229	366
Temperature (Deg. F.)	80	36	66	86	50	74
Aluminum (ppb)	182	0	29	63	0	6
Antimony (ppb)	1.2	0.0	0.2	0.4	0.0	0.1
Arsenic (ppb)	5.1	0.0	1.6	4.8	0.0	0.8
Barium (ppb)	201	7	56	126	7	43
Beryllium (ppb)	0.7	0.0	0.0	0.1	0.0	0.0
Cadmium (ppb)	5.4	0.0	0.0	0.7	0.0	0.0
Chromium (ppb)	11	0.0	0.9	8.0	0.0	0.8
Copper (ppb)	29	0.0	3.7	198	0.0	14.4
Iron (ppb)	216	0.0	21.9	171	0.0	13.6
Lead (ppb)	1.5	0.0	0.1	3.0	0.0	0.3
Manganese (ppb)	21	0.0	2.3	20.0	0.1	3.1
Mercury (ppb)	0.5	0.0	0.0	0.6	0.0	0.0
Nickel (ppb)	6.6	0.0	3.0	10	0.0	2.3
Selenium (ppb)	3.3	0.0	0.8	4.8	0.0	0.8
Silver (ppb)	0.5	0.0	0.0	0.7	0.0	0.0
Zinc (ppb)	46	0.0	4.4	162	0.0	6.9
Potassium (ppm)	13.4	1.9	3.8	8.8	1.2	3.6
Sodium (ppm)	55.5	8.5	25.6	55	9.0	24.4
Thallium (ppb)	0.6	0.0	0.0	0.4	0.0	0.0
Total Trihalomethanes (ppb)	0.3	0.0	0.0	53.2	4.8	19.5
Total Organic Carbon (ppm)	8.3	2.0	4.6	4.0	1.6	2.9
1, 2-Dichloroethane (ppb)	38.0	0.0	0.1	2.4	0.0	0.0
Chloroform (ppb)	0.2	0.0	0.0	42.9	4.1	13.9
Carbon Tetrachloride (ppb)	0.0	0.0	0.0	1.0	0.0	0.0
Bromodichloromethane (ppb)	0.1	0.0	0.0	10.0	0.0	4.5
Tetrachloroethene (ppb)	1.1	0.0	0.0	0.2	0.0	0.0
BTX (Benzene, Toluene & Xylenes) (ppb)	4.7	0.0	0.0	2.4	0.0	0.0
Total Coliforms (colonies/100 ml)	10900	45	1153	12	0	0
Heterotrophic Plate Count (CFU's/ 1.0ml)	34000	690	4963	1100	0	4
Fecal coliforms (colonies/100 ml)	2040	0	149	0	0	0

**TABLE VIII  
CARROLLTON OPERATION**

CHEMICAL	CHEMICAL COST	CHEMICAL COST PER MILLION GALLONS
Lime	\$593,054.05	\$14.29
Ferric Sulfate	\$296,162.75	\$7.14
Chlorine	\$550,211.33	\$13.26
Sodium Polyphosphate	\$99,452.59	\$2.40
Polyelectrolyte	\$219,117.49	\$5.28
Fluoride	\$79,682.46	\$1.92
Ammonia	\$59,711.42	\$1.44
Carbon	\$0.00	\$0.00
<b>TOTAL CHEMICALS</b>	<b>\$1,897,392.09</b>	<b>\$45.73</b>

Purification Plant Operating Cost: \$4,727,852.00  
 Total Water Treated 2001: 41,493,670,000 Gallons

**TOTAL COST  
PER MILLION GALLONS**

YEAR	TOTAL WATER TREATED MILLION GALLONS	OPERATING COST	COST PER MILLION GALLONS
2001	41,493.67	\$4,727,852.00	\$113.94
2000	46,758.31	\$4,627,313.00	\$98.96
1999	46,302.82	\$5,010,887.00	\$108.22
1998	46,987.48	\$4,960,716.00	\$105.58
1997	47,073.24	\$4,634,048.89	\$98.44

NOTE: Operating costs since 1996 include expenditures; Pension, FICA, and FICA-MED; which were charged to payroll related groups in previous years.

**TABLE IX**  
**ALGIERS OPERATION**

CHEMICAL	CHEMICAL COST	CHEMICAL COST PER MILLION GALLONS
Lime	\$96,848.07	\$25.22
Ferric Sulfate	\$57,328.92	\$14.93
Chlorine	\$30,199.49	\$7.87
Sodium Polyphosphate	\$9,052.50	\$2.36
Polyelectrolyte	\$31,463.50	\$8.19
Fluoride	\$7,107.39	\$1.85
Ammonia	\$7,698.49	\$2.01
Carbon	\$34.72	\$0.01
<b>TOTAL CHEMICALS</b>	<b>\$239,733.08</b>	<b>\$62.44</b>

Purification Plant Operating Cost: \$1,284,487.00  
 Total Water TREATED 2001: 3,839,540,000 Gallons

**TOTAL COST  
PER MILLION GALLONS**

YEAR	TOTAL WATER TREATED MILLION GALLONS	OPERATING COST	COST PER MILLION GALLONS
2001	3,839.54	\$1,284,487.00	\$334.54
2000	4,425.96	\$1,362,279.00	\$307.79
1999	5,971.82	\$1,373,072.00	\$229.93
1998	4,402.11	\$1,340,745.00	\$304.57
1997	4,187.24	\$1,094,971.56	\$261.50

NOTE: Operating costs since 1996 include expenditures; Pension, FICA, and FICA-MED; which were charged to payroll related groups in previous years.

### TABLE X

#### SLUDGE REMOVED FROM THE "G" BASINS PRIMARY TREATMENT UNITS DOOR MONORAKE CONVENTIONAL SYSTEM 2001

Total Million Gallons Water Treated	23,130.83
Total Tons Dry Sludge Deposited in Basins Including suspended and Dissolved Solids Removed and Reacting Chemicals	21,484
Total Million Gallons Wet Sludge Withdrawn from Basins	890.15
Average Percent solids in Wet Sludge	0.58
Total Million Gallons Water Used in withdrawing Sludge	888.00
Percent of Total Water Treated Used in Withdrawing Wet Sludge	3.85

### TABLE X-A

#### SLUDGE REMOVED FROM THE "L" BASINS PRIMARY TREATMENT UNITS DOOR MONORAKE CONVENTIONAL SYSTEM 2001

Total Million Gallons Water Treated	18,362.84
Total Tons Dry Sludge Deposited in Basins Including suspended and Dissolved Solids Removed and Reacting Chemicals	32,923
Total Million Gallons Wet Sludge Withdrawn from Basins	531.29
Average Percent solids in Wet Sludge	1.46
Total Million Gallons Water Used in withdrawing Sludge	528.00
Percent of Total Water Treated Used in Withdrawing Wet Sludge	2.89

TABLE XI  
2001 ANALYSIS DATA FOR NEW ORLEANS DRINKING WATER PURIFICATION SYSTEM

PARAMETER	MISSISSIPPI RIVER (Before Purification)			FINISHED WATER (After Purification)		
	MAX	MIN	AVG	MAX	MIN	AVG
Total Alkalinity (ppm as CaCO <sub>3</sub> )	158	78	116	118	60	91
Total Hardness (ppm as CaCO <sub>3</sub> )	202	103	155	178	107	143
Noncarbonate Hardness (ppm as CaCO <sub>3</sub> )	59	15	38	69	34	52
Calcium Hardness (ppm as CaCO <sub>3</sub> )	141	71	108	134	75	108
Magnesium Hardness (ppm as CaCO <sub>3</sub> )	68	13	48	63	14	37
Nephelometric Turbidity (N.T.U.)	294	5	81	0.36	0.08	0.15
Jackson Turbidity (J.T.U.)	410	25	130			
pH	8.30	7.57	7.82			
Chloride (ppm)	46	20	33	51	24	33
Fluoride (ppm)	0.39	0.12	0.23	1.27	0.70	0.93
Total Dissolved Solids (ppm)	401	185	253	351	132	246
Total Suspended Solids (ppm)	312	99	172			
Free Chlorine Residual (ppm as CL <sub>2</sub> )				0.48	0.00	0.12
Total Chlorine Residual (ppm as CL <sub>2</sub> )				4.64	1.82	3.09
Ammonia (ppm as N)				0.43	0.07	0.20
Ortho Phosphate (ppm as PO <sub>4</sub> )	0.46	0.08	0.28	0.39	0.06	0.23
Total Phosphate (ppm as PO <sub>4</sub> )	0.47	0.27	0.34	0.49	0.29	0.37
Sulfate (ppm as SO <sub>4</sub> )	36.5	26.5	32.1	37.0	27.9	32.3
Silica (ppm as SiO <sub>2</sub> )	8.2	5.2	6.0	5.6	4.1	4.8
Nitrate (ppm as N)	3.76	0.71	1.82	2.72	0.67	1.57
Nitrite (ppm as N)	0.17	0.00	0.03	0.10	0.00	0.02
Color (Scale Units)	25	15	18	15	10	12
Conductivity (umhos/cm)	434	214	330	416	229	325
Temperature (Deg. F.)	67	36	65	88	50	73
Aluminum (ppb)	144	2.8	23.4	63	0.0	6.5
Antimony (ppb)	1.1	0.0	0.2	0.3	0.0	0.2
Arsenic (ppb)	2.8	0.8	1.6	2.6	0.4	0.9
Barium (ppb)	82	30	52	126	30	44
Beryllium (ppb)	0.0	0.0	0.0	0.0	0.0	0.0
Cadmium (ppb)	0.2	0.0	0.0	0.2	0.0	0.0
Chromium (ppb)	3.5	0.0	0.6	4.8	0.0	1.2
Copper (ppb)	6.8	0.0	2.6	150	0.0	21.6
Iron (ppb)	218	0.0	40.5	79	0.0	19.9
Lead (ppb)	0.6	0.0	0.1	1.1	0.0	0.3
Manganese (ppb)	21	0.0	2.8	15	0.3	2.9
Mercury (ppb)	0.0	0.0	0.0	0.6	0.0	0.0
Nickel (ppb)	6.6	0.1	4.2	5.5	0.2	3.7
Selenium (ppb)	2.5	0.0	0.8	3.1	0.0	0.9
Silver (ppb)	0.4	0.0	0.0	0.1	0.0	0.0
Zinc (ppb)	46	0.0	4.4	11	0.0	1.2
Potassium (ppm)	11.4	3.1	4.6	5.1	2.9	4.1
Sodium (ppm)	53.3	21.5	31.2	43.7	18.2	28.9
Thallium (ppb)	0.0	0.0	0.0	0.1	0.0	0.0
Total Trihalomethanes (ppb)	0.3	0.0	0.0	46.4	10.7	25.1
Total Organic Carbon (ppm)	8.33	2.72	5.52	3.92	2.58	3.23
1, 2-Dichloroethane (ppb)	4.2	0.0	0.0	0.3	0.0	0.0
Chloroform (ppb)	0.2	0.0	0.0	35.3	6.4	17.9
Carbon Tetrachloride (ppb)	0.0	0.0	0.0	0.2	0.0	0.0
Bromodichloromethane (ppb)	0.1	0.0	0.0	10	2.0	5.8
Tetrachloroethene (ppb)	0.0	0.0	0.0	0.0	0.0	0.0
BTX (Benzene, Toluene & Xylenes) (ppb)	0.9	0.0	0.0	2.4	0.0	0.1
Total Coliforms (colonies/100 ml)	8870	120	1650	2	0	0
Heterotrophic Plate Count (CFU's/ 1.0 ml)	13600	1800	5000	205	0	3
Fecal coliforms (colonies/100 ml)	1350	10	120	0	0	0



**TABLE XII**

**EXTRACTS FROM TABLES IV-E AND V  
20 Year Period, 1982 to 2001 Inclusive  
Maximum, Minimum, and Average Amount of  
Water Treated Per Day  
(M.G. per 24 Hours)**

YEAR	CARROLLTON			ALGIERS		
	MAX.	MIN.	AVG.	MAX.	MIN.	AVG.
1982	216.40	118.30	133.80	15.68	9.25	11.07
1983	231.70	107.60	128.30	15.00	8.50	11.02
1984	166.71	113.08	130.37	15.42	9.50	11.07
1985	210.04	99.75	124.08	14.96	8.54	10.49
1986	175.77	89.12	121.50	13.71	8.04	10.29
1987	137.63	95.08	116.42	13.46	7.45	10.42
1988	146.38	94.71	118.38	13.71	8.34	10.19
1989	240.00	93.83	119.54	18.75	7.00	9.80
1990	162.50	100.46	119.61	14.78	8.00	10.46
1991	133.29	98.92	114.79	12.50	8.00	9.60
1992	139.00	97.00	115.22	13.88	8.00	9.88
1993	140.38	103.25	117.41	15.42	7.62	10.18
1994	128.88	103.88	113.71	17.00	8.00	11.47
1995	142.83	104.67	121.40	18.14	9.00	11.55
1996	198.42	91.59	128.97	18.27	9.00	11.47
1997	156.53	112.70	128.73	18.83	9.58	12.06
1998	152.96	98.48	126.86	22.96	12.00	12.36
1999	168.25	122.55	140.26	22.00	8.90	15.19
2000	152.50	126.71	128.10	18.83	7.58	12.13
2001	147.71	93.96	114.50	15.76	6.00	10.90

TABLE XIII

Monthly Temperature (Degrees Farenheit) of the  
Mississippi River Water at the Carrollton Plant

MONTHLY	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
January	39	37	35	40	45	46	64	45	50	39
February	41	38	36	38	48	50	50	50	49	44
March	47	38	42	43	52	57	52	50	55	49
April	52	48	53	55	57	61	61	60	60	57
May	63	60	62	62	68	63	70	67	69	69
June	72	71	71	77	76	75	80	77	78	75
July	78	76	77	82	83	83	85	82	83	82
August	77	76	77	85	83	87	85	87	86	84
September	74	75	76	84	82	83	83	83	84	83
October	64	62	66	73	72	77	76	74	72	73
November	54	51	57	60	62	67	65	66	63	63
December	41	41	46	50	51	59	57	56	47	56
Maximum	81	80	80	88	84	90	87	89	87	87
Minimum	36	35	32	36	40	39	47	42	39	36
Average	59	56	58	62	65	67	68	66	66	65

Ten Year Period

Maximum: 90  
Minimum: 32  
Average: 63

**TABLE XIV**

**Monthly Temperature (Degrees Farenheit) of the  
Tap Water at the Carrollton Plant**

	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
January	64	64	65	60	54
February	61	66	66	60	63
March	69	68	63	67	68
April	70	73	70	70	74
May	75	79	77	76	78
June	79	82	80	80	79
July	82	83	82	85	82
August	86	84	86	85	84
September	83	81	83	83	82
October	79	80	75	78	77
November	72	72	70	72	71
December	65	67	63	60	64
Maximum	92	89	89	92	89
Minimum	53	58	56	50	49
Average	74	75	74	72	73

<u>Five Year Period</u>	
Maximum	92
Minimum	49
Average	74

# New Orleans East Bank Sewage Treatment Plant

## Yearly Summary

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2001
<b>PLANT FLOW (MGD)</b>													
Average	100	92	127	89	83	130	110	122	107	85	80	89	101
Maximum	182	165	207	117	107	197	152	162	175	161	134	142	207
<b>INFLUENT BOD (mg/l)</b>													
Average	110	145	116	167	157	94	117	87	86	131	129	97	120
Maximum	175	259	182	259	223	172	185	168	192	217	246	163	259
<b>INFLUENT TSS (mg/l)</b>													
Average	124	150	143	167	161	118	168	122	119	133	196	111	146
Maximum	237	280	233	268	214	264	445	247	459	246	416	201	459
<b>INFLUENT BOD (lbs/day)</b>													
Average	89,615	112,299	120,138	122,625	108,049	93,537	103,248	89,860	70,916	88,125	85,001	70,441	98,492
Maximum	123,466	243,898	179,765	178,844	150,170	162,416	207,533	177,563	171,931	166,458	209,541	118,668	243,898
<b>INFLUENT TSS (lbs/day)</b>													
Average	100,573	115,262	149,220	122,960	111,725	122,395	149,439	127,667	111,129	92,889	132,161	82,838	121,475
Maximum	167,634	226,652	247,372	185,548	183,295	337,089	347,749	285,165	636,702	252,147	339,566	169,485	636,702
<b>EFFLUENT BOD (mg/l)</b>													
Average	39	51	30	30	36	30	29	21	26	25	28	33	31
Weekly Maximum	51	69	33	35	42	34	32	32	30	30	32	34	69
<b>EFFLUENT TSS (mg/l)</b>													
Average	37	46	36	30	33	42	35	30	39	41	39	40	37
Weekly Maximum	45	67	40	35	33	45	44	42	50	42	45	45	67
<b>EFFLUENT BOD (lbs/day)</b>													
Average	31,532	37,510	30,485	22,571	25,281	31,308	27,188	20,623	23,250	16,966	18,887	24,716	25,869
Maximum	50,591	71,771	51,810	44,676	52,248	57,040	58,460	35,271	56,414	31,775	41,806	39,955	71,771
<b>EFFLUENT TSS (lbs/day)</b>													
Average	30,314	34,296	38,582	22,289	22,614	46,725	34,246	30,331	37,456	28,347	26,093	30,271	31,797
Maximum	59,423	70,597	95,980	49,660	41,969	104,388	116,970	70,435	175,077	61,173	73,274	73,065	175,077
<b>EFFLUENT CL2 (mg/l)</b>													
Average	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2
Maximum	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
<b>EFFLUENT COLIFORM (col/100 ml)</b>													
Average	22	111	18	30	200	110	88	75	15	18	10	13	59
Weekly Maximum	43	328	328	56	388	346	383	225	105	46	19	24	388
<b>EFFLUENT pH (SU)</b>													
Minimum	6.70	6.47	6.56	6.54	6.42	6.46	6.46	6.48	6.35	6.17	6.42	6.32	6.17
Maximum	7.04	6.92	6.79	6.71	6.65	6.78	6.77	6.77	6.73	6.64	6.73	6.86	7.04
<b>BURNED SLUDGE (tons)</b>													
Average per day	16	7	7	18	14	18	22	16	12	15	26	25	16
Total	510	208	231	534	426	527	679	507	349	479	782	785	6,017
<b>AUXILIARY FUEL (MMBTU's)</b>													
Average per ton	11.2	11.2	0.0	9.6	14.4	16.4	13.0	13.2	13.8	22.9	11.9	14.0	4.4
Total	8,244	3,498	6,455	3,960	3,707	8,616	10,025	7,673	7,288	6,765	9,022	8,146	26,447
<b>ELECTRICITY (kwhr)</b>													
Average per day	77,497	77,100	86,439	75,040	70,452	84,280	79,935	77,768	75,880	71,806	70,280	63,135	75,801
Total	2,402,400	2,158,800	2,679,600	2,251,200	2,184,000	2,528,400	2,478,000	2,410,800	2,276,400	2,226,000	2,108,400	1,957,200	27,651,200
<b>RAINFALL (inches)</b>													
Total	3.0	1.0	11.4	0.5	2.0	19.1	7.5	7.0	5.6	4.4	3.3	3.0	67.9

# New Orleans West Bank Plant

## Yearly Summary

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2001
<b>PLANT FLOW (MGD)</b>													
Average	8.4	9.0	16.3	9.1	7.5	16.9	11.2	12.9	11.3	8.9	7.7	9.8	10.7
Maximum	15.2	12.1	31.5	12.3	14.1	37.2	28.0	20.0	21.1	22.4	13.6	18.3	37.2
<b>INFLUENT BOD (mg/l)</b>													
Average	94	115	63	97	114	72	79	57	72	101	122	99	88
Maximum	125	171	96	143	204	117	169	98	116	149	422	273	422
<b>INFLUENT TSS (mg/l)</b>													
Average	91	118	83	104	120	85	103	69	87	106	103	83	100
Maximum	135	261	148	148	274	147	287	117	236	158	256	120	287
<b>INFLUENT BOD (lbw/day)</b>													
Average	5,647	8,771	8,127	7,324	6,965	8,698	7,122	59,223	6,504	6,875	7,951	7,659	7,078
Maximum	7,598	14,451	12,311	9,541	11,728	19,353	12,655	11,262	12,702	9,875	40,436	28,202	40,436
<b>INFLUENT TSS (lbw/day)</b>													
Average	6,292	9,082	11,475	7,921	7,618	10,610	9,693	7,471	8,485	7,281	6,627	6,371	8,392
Maximum	10,522	26,339	26,846	10,727	21,755	24,117	28,723	16,348	31,689	12,176	24,553	12,210	31,689
<b>EFFLUENT BOD (mg/l)</b>													
Average	27	30	25	30	37	26	27	21	19	19	24	23	26
Maximum	40	41	41	40	51	36	35	32	29	25	38	29	51
<b>EFFLUENT TSS (mg/l)</b>													
Average	25	27	24	23	25	26	21	23	24	20	20	22	23
Maximum	38	36	36	31	38	37	35	31	33	31	30	41	41
<b>EFFLUENT BOD (lbw/day)</b>													
Average	1,927	2,298	3,374	2,272	2,302	3,592	2,454	2,160	1,966	1,516	1,542	1,794	2,250
Maximum	4,385	3,845	8,091	2,965	4,763	7,136	4,904	4,161	4,242	2,669	3,664	3,877	8,091
<b>EFFLUENT TSS (lbw/day)</b>													
Average	1,797	2,018	3,538	1,753	1,561	3,924	2,955	2,497	2,481	1,461	1,273	1,784	2,179
Maximum	4,183	2,826	9,458	2,647	3,594	11,479	5,805	4,541	5,331	4,228	2,839	4,579	9,458
<b>EFFLUENT CL2 (mg/l)</b>													
Maximum	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
<b>EFFLUENT COLIFORM (col/100 ml)</b>													
Average (Geo)	8	19	18	8	5	20	14	16	13	8	5	8	12
Maximum	300	270	160	57	38	400	170	365	40	65	66	76	400
<b>EFFLUENT pH (SU)</b>													
Minimum	7.40	7.30	7.50	7.40	6.80	7.00	7.00	7.00	6.90	6.60	6.80	7.00	6.60
Maximum	8.00	7.80	7.90	8.00	7.60	7.50	7.50	7.50	7.40	7.40	7.30	7.50	8.00
<b>DISPOSED SLUDGE (tons)</b>													
Total	106	85	120	105	95	100	104	139	94	110	92	119	1,259
<b>ELECTRICITY (kwhr)</b>													
Average per day	9,829	9,218	11,606	8,493	7,406	11,527	9,033	10,703	9,767	8,852	8,167	10,026	9,553
Total	304,696	288,104	359,808	254,800	229,600	345,800	280,000	331,800	291,200	274,400	245,000	310,800	2,240,000
<b>RAINFALL (inches)</b>													
Total	3.1	4.1	26.4	0.3	2.5	31.8	14.3	15.9	5.3	6.2	2.8	18.7	120.9

**ANNUAL REPORT - 2001  
WATER TABULATION NO. 1**

**WATER LINES LAID DURING 2001  
QUANTITIES OF PIPE MEASURED IN FEET**

ITEMS	BY CONTRACT	BY OTHERS	TOTAL FEET	TOTAL MILES
2" P.V.C.	77.00	860.50	937.50	0.178
4" P.V.C.	27.00	569.00	596.00	0.113
6" P.V.C.	598.00	2,338.20	2,936.20	0.556
8" P.V.C.	10,362.00	17,093.00	27,455.00	5.200
8" D.I.	490.00	1,481.70	1,971.70	0.373
10" P.V.C.	0.00	0.00	0.00	0.000
10" D.I.	0.00	0.00	0.00	0.000
12" P.V.C.	4,652.00	2,507.80	7,159.80	1.356
12" D.I.	280.00	1,481.70	1,761.70	0.334
18" P.V.C.	0.00	0.00	0.00	0.000
48" STEEL	130.00	0.00	130.00	0.025
4" D.I.	0.00	408.00	408.00	0.077
<b>TOTAL FEET</b>	<b>16,616.00</b>	<b>26,739.90</b>	<b>43,355.90</b>	<b>8.21</b>
FIRE HYDRANTS	34	46	80	Total Fire Hydrants in 2001
VALVES	53	73	126	Total Valves in 2001
MANHOLES	43	78	121	Total Manholes in 2001

Total feet removed or abandoned                      15,639.00

**WATER VALVES AS OF 2001**

INSTALLED IN 2001	REMOVED IN 2001	TOTAL VALVES REMAINING IN 2001
126	0	24,352

**FIRE HYDRANTS AS OF 2001**

INSTALLED IN 2001	REMOVED IN 2001	TOTAL FIRE HYDRANTS REMAINING IN 2001
80	6	17,686

**WATER MANHOLES AS OF 2001**

INSTALLED IN 2001	REMOVED IN 2001	TOTAL MODIFICATIONS IN 2001
121	2	119

**WATER LINES IN SYSTEM AS OF 2001**

INSTALLED	ABANDONED & REPLACED	ADDED	TOTAL FEET	TOTAL MILES
43,355.90	15,639.00	27,716.90	43,355.90	8.21

ANNUAL REPORT 2001  
 WATER TABULATION NO. 2  
 WATER MAINS, VALVES, AND HYDRANTS INSTALLED BY EACH AGENCY AND  
 QUANTITIES REMOVED OR ABANDONED IN THE PRESENT EXISTING WATER DISTRIBUTION SYSTEM  
 AT THE END OF 2001

CONTRACTOR	WATER MAINS				VALVES				HYDRANTS			
	Existing	Total Linear Feet Installed	Total Linear Feet Removed or Abandoned	Total Linear Feet Remaining in System	Existing	Installed	Removed	Remaining	Existing	Installed	Removed	Remaining
Algiers Water Works	48,830.00	0.00	0.00	48,830.00	72	0	0	72	0	0	0	0
Ordinary Contracts	4,470,748.80	16,616.00	15,639.00	4,471,725.80	15,908	52	0	15,960	506	34	6	534
S&WB Forces	723,346.80	0.00	0.00	723,346.80	1,927	0	0	1,927	1,731	0	0	1,731
By L-M-P Contracts	1,120,029.00	0.00	0.00	1,120,029.00	2,013	0	0	2,013	9,617	0	0	9,617
By P-W-A Contracts	64,917.30	0.00	0.00	64,917.30	36	0	0	36	52	0	0	52
C-W-A & E-R-A Contracts	32,154.50	0.00	0.00	32,154.50	44	0	0	44	86	0	0	86
By W-P-A Contracts	249,199.70	0.00	0.00	249,199.70	401	0	0	401	441	0	0	441
By F-W-A Contracts	52,649.60	0.00	0.00	52,649.60	31	0	0	31	19	0	0	19
By Various War Agencies	3,158.00	0.00	0.00	3,158.00	0	0	0	0	0	0	0	0
Under HANO	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0
Under F-P-H-A	1,176.40	0.00	0.00	1,176.40	0	0	0	0	0	0	0	0
By Orleans Levee Board	147,667.80	0.00	0.00	147,667.80	357	0	0	357	863	0	0	863
By Others	706,503.50	26,739.90	0.00	733,243.40	3,412	74	0	3,486	4,297	46	0	4,343
By Dock Board	9,508.20	0.00	0.00	9,508.20	121	0	0	121	0	0	0	0
Total Linear Feet	7,629,889.60	43,355.90	15,639.00	7,657,606.50	24,322	126	0	24,448	17,612	80	6	17,688
Total Miles	1,445.05	8.21	2.96	1,450.30								





**ANNUAL REPORT - 2001**  
**SEWER TABULATION NO. 1**  
**SEWER LINES LAID DURING 2001**  
**QUANTITIES OF PIPE MEASURED IN FEET**

ITEMS	BY CONTRACT	BY OTHERS	TOTAL FEET	TOTAL MILES
6" P.V.C.	9,075.00	3,307.60	12,382.60	2.35
8" P.V.C.	18,821.00	13,911.50	32,732.50	6.20
8" D.I.	0.00	0.00	0.00	0.00
10" P.V.C.	761.00	842.00	1,603.00	0.30
12" P.V.C.	1,153.00	0.00	1,153.00	0.22
15" P.V.C.	587.60	0.00	587.60	0.11
18" P.V.C.	464.50	0.00	464.50	0.09
24" P.V.C.	354.00	0.00	354.00	0.07
4" P.V.C./S.F.M.	0.00	686.00	686.00	0.13
36" P.V.C.	0.00	0.00	0.00	0.00
<b>TOTALS</b>	<b>31,216.10</b>	<b>18,747.10</b>	<b>49,963.20</b>	<b>9.46</b>
M.H.'S	6	67	73 Total Manholes Constructed in 2001	

**SEWER LINES LAID IN 2001**

ORIGINAL CONSTRUCTION (IN FEET)	REMOVED & REPLACED (IN FEET)	TOTAL REMAINING (IN FEET)	TOTAL REMAINING (IN MILES)
8,287,302.10	31,216.10	8,256,086.00	1,563.65

**SEWER MANHOLE PROJECTS FOR 2001**

BUILT IN 2001	REMOVED IN 2001	TOTAL MODIFICATIONS IN 2001
73	0	73

ANNUAL REPORT - 2001  
SEWER TABULATION NO. 2

SEWER MANHOLE AND FLUSH TANKS BUILT BY EACH CONTRACT FOR 2001  
THE QUANTITIES DESTROYED OR ABANDONED AND THE EXTENT OF THE SEWERAGE AT THE END OF 2001

	SEWER PIPE			ALL SEWERS			MANHOLES		
	ORIGINAL BUILT	REMOVED & REPLACED	REMAIN	ORIGINAL BUILT	ABANDONED	REMAINING	ORIGINAL BUILT	ABANDONED	REMAINING
Bought from N.O. Sewer Co.	21,307.50	0.00	6,809.20	24,908.20	0.00	6,809.20	0.00	0.00	0.00
Built Under Ordinary Contracts	137,222.30	31,216.10	117,193.30	3,654,238.20	0.00	1,184,005.00	22,977.00	0.00	22,977.00
Built by S&WB Forces	1,353,426.20	0.00	1,249,055.40	1,357,727.70	0.00	1,293,758.90	3,998.00	0.00	3,856.00
Built by Dock Board	5,839.70	0.00	5,839.70	6,874.30	0.00	6,874.30	19.00	0.00	19.00
Built Under CWA & ERA Contracts	25,662.60	0.00	25,662.50	25,662.60	0.00	25,302.60	76.00	0.00	73.00
Built Under WPA Contracts	112,735.20	0.00	112,735.20	112,735.20	0.00	112,735.20	504.00	0.00	501.00
Built Under PWA Contracts	177,599.30	0.00	163,503.90	163,503.90	0.00	163,503.90	474.00	0.00	469.00
Built Under FWA Contracts	9,120.80	0.00	5,802.80	9,120.80	0.00	9,120.80	32.00	0.00	32.00
Built by Orleans Levee Board	126,348.70	0.00	118,845.70	126,348.70	0.00	118,845.70	675.00	0.00	669.00
Built by FPHA	4,253.10	0.00	3,912.60	4,253.10	0.00	3,912.60	17.00	0.00	16.00
Built Under L.M.P. Contracts	733,963.50	0.00	717,611.10	743,801.80	0.00	720,992.40	2,192.00	0.00	2,132.00
Built by Others	1,958,576.30	0.00	1,918,369.90	1,937,292.80	0.00	1,897,086.40	5,508.00	0.00	5,427.00
TOTAL LINEAR FEET	4,666,055.20	31,216.10	4,445,341.30	8,166,467.30	0.00	5,542,947.00	36,472.00	0.00	36,171.00
TOTAL MILES	883.72	5.91	841.92	1,546.68	0.00	1,049.80			

ANNUAL REPORT - 2001  
SEWER TABULATION NO. 3  
LENGTH OF SEWER OF EACH SIZE AND MATERIAL BUILT, DISCARDED AND NOW REMAINING IN THE SYSTEM

SIZE & MATERIAL OF SEWER	TOTAL LENGTH BUILT INCLUDING SUBSTITUTES	DESTROYED OR ABANDONED	ADDED	NOW REMAINING IN THE SYSTEMS	SIZE & MATERIAL OF SEWER	TOTAL LENGTH BUILT INCLUDING SUBSTITUTES	DESTROYED OR ABANDONED	ADDED	NOW REMAINING IN THE SYSTEMS
72" Steel	29,182.40			29,182.40	24" Vitrified Clay	31,911.40			31,911.40
68" Steel	9,061.90			9,061.90	24" Cast Iron	17,638.10			17,638.10
66" Concrete	13,740.70			13,740.70	24" Asbestos Cement	4,942.20			4,942.20
66" Steel	28,979.70			28,979.70	24" Reinforced Concrete	28,377.00			28,377.00
60" Steel	2,577.70			2,577.70	24" P.V.C.	162.00			162.00
60" Concrete	748.90			748.90	24" Steel	110.00			110.00
57" Concrete	1,766.80			1,766.80	21" P.V.C.	373.60			373.60
54" Concrete	7,030.40			7,030.40	21" Reinforced Concrete	14,994.50			14,994.50
54" Steel	44,014.50			44,014.50	20" Ductile Iron Pipe	143.80			143.80
51" Concrete	928.30			928.30	18" P.V.C.	3,121.50			3,121.50
50" Steel	135.00			135.00	16" Steel	120.00			120.00
48" Concrete	13,791.00			13,791.00	16" Asbestos Cement	28,886.90			28,886.90
48" FRP	10,900.20			10,900.20	16" Plastic	1,913.10			1,913.10
48" Steel	21,147.20			21,147.20	15" P.V.C.	4,706.40			4,706.40
45" Concrete	3,048.40			3,048.40	15" Plastic Truss	1,766.80			1,766.80
42" Concrete	20,170.10			20,170.10	15" Vitrified Clay	119,082.60	1,445.00		117,637.60
42" Steel	3,580.20			3,580.20	10" Vitrified Clay	195,009.80	261.00		194,748.80
39" Brick	884.80			884.80	10" Concrete	54,095.80			54,095.80
39" Concrete	3,871.00			3,871.00	10" Steel	130.00			130.00
36" Vitrified Clay	2,433.70			2,433.70	10" Asbestos Cement	27,660.40			27,660.40
36" Prestressed Concrete	11,617.20			11,617.20	10" P.V.C.	101,967.30			101,967.30
36" Reinforced Concrete	9,312.70			9,312.70	10" Plastic Truss	6,102.50			6,102.50
36" Steel	150.00			150.00	8" Plastic	706,265.50			706,265.50
36" Cast Iron	10,674.00			10,674.00	8" Concrete	365,048.60	202.00		364,846.60
36" P.V.C.	10,604.00			10,604.00	8" Terra Cotta	376,188.30	350.00		375,838.30
33" Brick	3,080.90			3,080.90	8" Cast Iron	32,887.40			32,887.40
33" Reinforced Concrete	1,450.90			1,450.90	8" Vitrified Clay	4,517,940.60	14,755.20		4,503,185.40
30" Vitrified Clay	1,428.60			1,428.60	8" Asbestos Cement	3,895.90			3,895.90
30" Brick	3,006.60			3,006.60	8" Plastic Truss	78,885.90			78,885.90
30" Prestressed Concrete	484.00			484.00	8" P.V.C.	77,751.30			77,751.30
30" Reinforced Concrete	30,256.00			30,256.00	6" Concrete	2,364.60	41.50		2,323.10
30" Vitrified Clay	11,732.20			11,732.20	6" Asbestos Cement	4,493.90			4,493.90
30" Cast Iron	4,305.90			4,305.90	6" Cast Iron	4,204.40			4,204.40
30" Steel	3,255.20			3,255.20	6" Vitrified Clay	147,453.90	10,822.30		136,631.60
30" ERP	16,400.00			16,400.00	6" Plastic	371,272.70			371,272.70
29" P.V.C.	887.00			887.00	6" Plastic Truss	7,354.60			7,354.60
28" P.V.C.	541.00			541.00	6" Terra Cotta	13,334.20	60.00		13,274.20
27" Vitrified Clay	27,148.10			27,148.10	6" P.V.C.	22,626.50			22,626.50
27" Terra Cotta	11.00			11.00	4" Cast Iron	874.20			874.20
27" P.V.C.	11.00			11.00	4" Ductile Iron	180.40			180.40
27" Reinforced Concrete	13,738.40			13,738.40	4" Plastic	126.00			126.00
26" P.V.C.	2,277.00			2,277.00	4" P.V.C.	703.00			703.00
Subtotal Linear Feet	378,087.60	0.00		378,087.60	Subtotal Linear Feet	7,377,067.60	27,937.00		7,349,130.60
Total Miles	71.61	0.00		71.61	Total Linear Feet	7,755,155.20	27,937.00		7,727,218.20
					Total Miles	1,468.78	5.29		1,463.49

TABLE OF RAINFALL IN NEW ORLEANS SINCE ESTABLISHMENT OF RAIN GAGES IN 1894  
 RAINFALL AND AVERAGES FOR YEAR 1894 TO DATE

YEAR No.	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL MONTHLY AVERAGE	EXCESS OR DEFICIT
	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE		
1	2.11	13.27	15.36	24.13	2.36	26.49	4.10	30.59	8.15	38.74	7.46	46.20	1.37	47.57	0.78	48.35	1.19	49.54	1.84	51.38	1.94	53.32	1.84	55.16	4.29	
1895	7.85	3.78	11.41	17.52	10.38	27.90	10.48	38.38	6.97	45.35	7.32	52.67	2.18	54.85	1.32	56.17	0.86	57.03	4.80	61.83	5.15	66.98	6.74	73.72	5.19	
total	9.76	17.03	26.79	41.65	12.74	54.39	14.58	68.97	15.12	84.09	14.78	98.87	3.53	102.40	2.08	104.48	2.07	106.55	6.74	113.29	7.99	121.27	13.73	135.01		
avg.	4.88	8.52	13.40	20.83	6.37	27.20	7.29	34.49	7.56	42.05	7.39	49.44	1.77	51.20	1.04	52.24	1.04	53.28	3.37	56.85	3.99	60.84	6.52	67.36		
1896	2.52	3.07	5.59	14.11	3.11	17.22	9.61	26.83	3.56	30.39	4.05	34.44	6.69	41.13	3.73	44.86	5.80	50.66	3.99	54.65	4.52	59.17	6.51	65.68	-1.60	
total	12.28	20.10	32.38	55.76	15.85	71.81	24.19	95.80	18.68	114.48	18.83	133.31	9.33	142.64	6.77	151.41	5.80	157.21	10.33	167.54	11.03	178.57	16.04	194.61		
avg.	4.09	6.70	10.79	18.59	5.28	23.87	8.06	31.93	6.23	38.16	6.28	44.44	3.11	47.55	2.92	50.47	1.93	52.40	3.44	55.85	4.10	59.95	8.94	68.89		
1897	2.02	5.10	7.12	18.07	0.58	18.65	6.21	24.86	4.90	29.76	3.56	33.32	3.85	37.17	3.78	40.95	3.22	44.15	5.09	49.24	5.09	54.33	6.58	60.91	-4.95	
total	14.30	25.20	39.50	73.83	16.43	90.26	30.40	120.66	23.58	144.24	22.39	166.63	13.18	179.81	12.53	192.34	9.02	201.36	15.42	216.78	15.42	232.20	30.91	263.11		
avg.	3.58	6.30	9.98	14.57	4.11	22.57	7.60	30.17	5.90	36.06	5.90	41.96	3.30	45.26	3.13	48.39	2.28	50.34	3.88	54.20	3.88	58.08	9.76	67.84		
1898	2.00	7.30	9.30	13.73	0.10	13.83	3.56	17.39	5.70	23.09	5.48	28.57	16.01	44.58	1.50	46.08	6.32	52.40	3.08	55.48	4.62	60.10	6.52	66.62	1.01	
total	16.30	32.50	48.80	87.56	16.53	104.09	33.96	138.05	28.28	167.33	27.87	195.20	29.19	224.39	14.03	238.42	15.34	253.76	19.48	273.24	19.48	292.72	36.40	329.12		
avg.	3.26	6.50	9.78	17.51	3.31	20.82	6.79	27.61	5.83	33.47	5.57	39.04	5.84	44.88	2.81	47.69	3.07	50.75	3.70	54.45	3.70	58.15	13.22	66.37		
1899	2.61	3.43	6.04	10.61	0.15	10.76	6.92	17.68	2.76	20.44	2.88	23.32	5.70	29.02	3.01	32.03	2.99	35.02	3.43	38.45	3.43	41.88	5.87	47.75	-14.85	
total	18.91	35.93	54.84	98.17	16.68	114.85	43.58	158.43	34.98	193.41	37.88	231.29	40.85	272.14	21.50	293.64	21.17	314.81	26.95	341.76	26.95	368.71	42.82	411.53		
avg.	3.15	5.99	9.14	16.36	2.78	19.14	7.26	26.41	5.83	32.24	5.15	37.39	4.93	42.31	2.62	44.93	2.69	47.63	3.65	51.28	3.65	54.93	8.44	63.37		
1900	3.88	5.99	9.87	14.37	3.38	17.75	6.78	24.53	8.42	32.95	8.42	41.37	17.33	58.70	2.59	61.29	3.63	64.92	1.28	66.20	1.28	67.48	2.85	70.33	10.82	
total	22.79	41.92	64.71	124.83	20.06	144.89	50.36	195.25	43.40	238.65	35.86	274.51	33.21	307.72	18.25	325.97	18.84	344.81	28.35	373.16	28.35	401.51	37.89	439.40		
avg.	3.28	5.99	9.24	17.83	2.87	20.70	7.19	27.89	6.20	34.09	5.12	39.21	4.74	43.96	2.61	46.57	2.96	49.53	2.05	51.58	2.05	53.63	6.44	60.07		
1901	3.33	5.72	9.05	12.86	7.75	20.61	3.58	24.19	2.40	26.59	9.42	36.01	9.42	45.43	3.25	48.68	2.53	51.21	4.54	55.75	4.54	60.29	8.98	69.27	0.57	
total	26.12	47.64	73.76	145.44	21.85	167.29	53.92	221.21	52.82	274.03	40.85	314.88	36.45	351.33	21.50	372.83	21.17	394.00	32.89	426.89	32.89	459.78	53.83	513.61		
avg.	3.27	5.96	9.22	18.18	2.73	20.91	6.74	27.65	6.00	34.25	5.11	39.36	4.58	43.92	2.69	46.60	2.85	49.45	4.11	53.56	4.11	57.67	10.88	68.55		
1902	0.75	3.52	4.27	3.89	8.16	3.41	11.57	2.04	13.61	1.21	14.82	2.51	17.33	3.21	20.54	5.93	26.47	2.38	28.85	3.25	32.10	5.83	37.93	3.16	-13.72	
total	26.87	51.16	78.03	113.11	35.08	150.00	56.13	206.13	45.82	251.92	35.33	291.25	44.06	335.26	24.42	359.78	24.42	384.20	28.14	412.34	28.14	440.48	53.83	494.31		
avg.	2.99	5.88	8.67	12.57	4.88	20.10	6.13	26.23	6.15	32.37	4.90	37.27	4.71	41.98	2.65	44.63	2.71	47.34	4.30	51.65	4.30	55.95	10.88	66.83		
1903	3.94	11.77	13.75	25.52	0.88	26.18	1.37	27.55	3.94	31.49	6.57	38.06	5.79	43.85	2.47	46.32	0.60	46.92	0.21	47.13	3.58	50.71	4.23	54.94	-0.84	
total	30.81	60.97	91.78	183.19	25.26	208.45	59.07	267.52	61.90	329.42	49.85	379.27	44.85	424.12	24.46	448.58	24.63	473.21	28.30	501.53	28.30	529.83	64.10	593.93		
avg.	3.08	6.10	9.18	13.88	4.46	18.32	5.91	26.75	6.19	32.94	4.99	37.93	4.49	42.41	2.45	44.86	2.46	47.32	4.23	51.55	4.23	55.78	13.72	69.50		
1904	3.15	1.59	4.74	8.78	1.77	10.55	3.83	14.38	8.87	23.25	6.60	29.85	9.42	39.27	4.90	44.17	4.71	48.88	2.42	51.30	2.42	53.72	8.98	62.70	-11.38	
total	33.96	62.56	96.52	147.41	46.33	193.74	29.09	222.83	62.94	285.77	68.50	354.27	55.42	409.69	46.25	455.94	25.62	481.56	26.23	507.79	26.23	534.03	74.53	608.56		
avg.	3.09	5.89	8.77	13.40	4.21	17.61	2.84	20.28	5.72	25.98	6.23	32.21	5.04	37.24	4.39	41.63	2.33	43.96	2.38	46.34	4.07	50.42	13.18	63.60		
1905	6.38	4.97	11.35	18.48	5.57	24.05	4.21	28.26	5.79	34.05	4.28	38.33	3.49	41.82	9.28	51.10	6.23	57.33	4.02	61.36	4.02	65.38	13.18	78.56	22.11	
total	40.34	67.53	107.87	165.89	51.90	217.79	33.30	251.09	68.73	319.82	72.78	392.60	56.91	451.51	57.53	509.04	31.85	540.89	30.25	571.14	30.25	601.39	82.90	684.29		
avg.	3.36	5.63	8.99	13.82	4.33	18.15	2.78	20.92	5.73	26.68	6.07	32.72	4.91	37.63	4.79	42.42	2.65	45.07	2.52	47.60	4.83	52.43	13.18	65.61		
1906	2.05	2.03	4.08	6.81	1.31	11.34	0.78	12.10	4.02	16.12	6.28	22.40	5.09	27.49	8.32	35.81	1.25	37.06	0.91	37.97	3.02	40.99	3.42	44.41	-10.56	
total	42.39	69.56	111.95	175.92	53.21	229.13	34.08	263.19	72.75	335.94	79.06	415.00	64.00	479.00	65.85	544.85	33.10	577.95	31.16	609.11	31.16	640.27	82.90	723.17		
avg.	3.28	5.35	8.61	13.53	4.09	17.63	2.62	20.25	5.60	25.84	6.06	31.92	4.92	36.85	5.07	41.91	2.55	44.46	2.40	46.85	4.69	51.55	13.18	64.73		
1907	2.22	4.81	6.83	8.41	1.98	10.63	8.41	19.04	14.2	33.25	14.2	47.45	28.4	75.85	36.03	111.88	41.42	153.30	36.06	189.36	36.06	225.42	46.85	272.27	11.71	
total	44.61	74.17	118.78	184.33	65.85	250.18	48.04	298.22	74.17	372.39	81.90	454.29	68.78	523.07	72.08	595.13	34.43	629.56	36.06	665.62	36.06	701.68	82.90	784.58		
avg.	3.19	5.30	8.48	13.17	4.70	17.87	3.43	21.30	5.30	26.60	5.65	32.25	4.91	37.16	5.15	42.31	2.46	44.77	2.58	47.34	4.90	52.23	13.18	65.41		
1908	4.28	4.14	8.42	3.38	11.80	1.41	13.21	5.08	18.27	3.08	21.35	10.93	32.28	4.60	36.88	11.26	48.14	0.75	48.89	0.44	49.33	1.78	51.12	4.28	-1.24	
total	48.89	78.31	127.20	196.13	67.26	263.39	53.10	316.49	77.25	393.74	92															

TABLE OF RAINFALL IN NEW ORLEANS SINCE ESTABLISHMENT OF RAIN GAGES IN 1894  
RAINFALL AND AVERAGES FOR YEAR 1894 TO DATE

YEAR No.	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL MONTHLY AVERAGE	EXCESS OR DEFICIT
	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE		
1814	1.05	8.00	7.06	3.93	10.99	4.93	15.92	16.51	20.27	6.98	26.95	9.21	36.16	4.87	41.03	1.26	42.29	4.15	46.44	3.92	50.36	4.20	54.56	4.20	-4.29	
1815	67.95	100.82	168.77	298.00	374.78	490.15	110.67	570.82	131.35	702.17	115.08	817.23	120.11	937.34	51.08	988.40	868.40	54.30	1,042.70	104.90	1,147.60	5.00	1,202.60	5.00	1,252.60	
1816	3.24	4.80	8.04	4.73	12.76	5.08	17.85	21.91	27.18	6.25	33.44	5.48	38.92	5.72	44.64	2.43	47.07	2.59	49.66	4.69	54.35	5.47	59.82	5.47	65.29	
1817	7.42	4.19	11.58	2.11	13.69	0.08	13.75	17.29	22.56	6.49	29.05	7.91	36.96	9.94	46.90	12.14	59.04	1.94	60.98	4.89	65.87	5.47	71.34	5.47	76.81	
1818	75.37	104.98	180.35	101.34	281.69	108.84	388.53	477.44	593.38	137.84	731.22	122.97	854.19	130.05	984.24	83.20	1,067.44	59.24	1,126.68	109.59	1,236.27	5.47	1,290.74	5.47	1,345.21	
1819	3.43	4.77	8.20	4.61	12.80	4.66	17.66	21.70	26.97	6.27	33.24	5.59	38.83	5.91	44.74	2.87	47.61	2.56	50.17	4.96	55.13	4.31	59.44	4.31	63.75	
1820	4.23	2.01	6.24	0.67	6.91	2.06	8.97	7.89	24.39	5.30	29.69	4.93	34.62	3.89	38.51	6.92	45.43	0.89	46.32	5.94	52.26	5.47	57.73	5.47	63.20	
1821	79.80	106.99	186.59	102.01	288.60	109.50	398.10	494.90	624.80	122.87	747.67	143.14	890.81	133.92	1,024.73	70.12	1,094.85	56.93	1,151.78	115.52	1,267.30	5.47	1,321.77	5.47	1,377.24	
1822	3.46	4.85	8.11	4.44	12.55	4.78	17.31	21.52	26.86	6.22	33.08	5.36	38.44	5.81	44.25	3.05	47.30	2.48	49.78	5.02	54.80	2.79	57.59	2.79	60.38	
1823	3.67	2.87	5.54	2.94	8.48	3.66	13.14	14.44	16.69	5.84	22.53	5.34	27.87	5.34	33.21	5.55	38.76	3.28	42.04	4.83	46.87	4.75	51.62	4.75	56.37	
1824	83.27	109.86	193.13	104.95	298.08	113.16	411.24	509.34	624.80	122.87	747.67	143.14	890.81	133.92	1,024.73	70.12	1,094.85	56.93	1,151.78	115.52	1,267.30	5.47	1,321.77	5.47	1,377.24	
1825	3.47	4.98	8.05	4.37	12.42	4.72	17.14	21.22	26.41	6.21	32.62	5.55	38.17	5.70	43.87	2.95	46.82	2.95	49.77	4.90	54.67	4.75	59.42	4.75	64.17	
1826	87.41	111.51	198.92	108.57	305.49	123.44	428.93	529.11	652.55	151.32	803.87	146.35	950.22	131.18	1,081.40	81.49	1,162.89	61.18	1,224.07	122.36	1,346.43	5.47	1,401.90	5.47	1,457.37	
1827	3.50	4.46	7.96	4.26	12.22	4.84	17.06	21.16	26.25	6.05	32.30	5.58	37.88	5.40	43.28	3.26	46.54	2.45	48.99	5.01	54.00	5.47	59.47	5.47	64.94	
1828	6.78	8.11	12.89	3.24	16.13	7.25	23.38	31.25	38.52	6.96	45.48	5.40	50.88	3.21	54.09	5.78	59.87	7.68	67.55	0.90	68.45	5.47	73.92	5.47	79.39	
1829	94.19	117.82	211.81	109.81	321.62	130.69	452.31	583.00	713.69	132.32	845.99	144.27	990.26	144.27	1,134.53	87.27	1,221.80	68.66	1,290.46	128.26	1,418.72	5.47	1,474.19	5.47	1,529.66	
1830	3.62	4.52	8.15	4.22	12.37	5.03	17.40	21.56	26.64	6.09	33.73	5.55	39.28	5.55	44.83	3.36	48.19	2.65	50.84	4.86	55.70	4.75	60.45	4.75	65.20	
1831	5.34	3.73	9.07	2.85	11.92	6.31	18.23	23.47	30.98	5.47	36.45	4.00	40.45	7.37	47.82	3.01	50.83	2.93	53.76	6.42	60.18	5.16	65.34	5.16	70.50	
1832	99.53	121.35	220.88	112.66	333.54	137.00	470.54	583.83	723.66	163.75	887.41	148.27	1,035.68	151.89	1,187.57	90.28	1,277.85	71.79	1,349.64	134.68	1,484.32	5.47	1,539.79	5.47	1,594.26	
1833	3.69	4.49	8.18	4.17	12.35	5.07	17.42	21.62	26.80	6.06	33.86	5.49	39.35	5.82	45.17	3.34	48.51	2.68	51.19	4.98	56.17	4.75	60.92	4.75	65.67	
1834	1.17	1.97	3.14	4.50	7.64	4.28	11.92	16.10	21.34	5.30	26.64	6.10	32.75	5.44	38.19	4.11	42.30	3.55	45.85	6.85	52.70	4.84	57.54	4.84	62.38	
1835	100.70	123.32	224.02	117.16	341.18	141.28	482.46	597.55	746.94	170.92	918.86	152.45	1,071.31	126.28	1,197.59	96.05	1,293.64	79.20	1,372.84	144.88	1,517.72	5.47	1,572.19	5.47	1,626.66	
1836	3.60	4.40	8.00	4.16	12.16	5.05	17.23	21.34	26.54	6.10	32.64	5.44	38.08	5.55	43.59	3.25	46.84	2.70	49.54	6.92	56.46	4.84	61.30	4.84	66.14	
1837	105.24	128.87	232.11	125.38	357.49	145.46	502.94	624.23	771.07	175.80	947.87	158.95	1,106.82	158.95	1,265.77	98.05	1,363.82	79.20	1,443.02	144.88	1,587.90	5.47	1,642.37	5.47	1,696.84	
1838	3.63	4.37	8.00	4.32	12.33	5.02	17.34	21.53	26.80	6.06	33.86	5.48	39.34	5.40	44.74	3.31	48.05	2.46	50.51	6.83	57.34	5.14	62.48	5.14	67.62	
1839	3.99	2.26	6.25	4.46	10.71	4.13	14.84	19.71	24.95	6.17	31.12	7.48	38.60	6.80	45.40	4.83	50.23	2.46	52.77	8.41	61.18	5.14	66.32	5.14	71.46	
1840	109.23	129.13	238.36	129.84	368.20	149.58	517.78	648.78	807.79	185.43	993.22	186.43	1,159.65	159.17	1,318.82	98.51	1,417.33	84.14	1,501.47	148.51	1,649.98	5.47	1,704.45	5.47	1,758.92	
1841	3.64	4.30	7.95	4.33	12.27	4.99	17.26	21.63	26.93	6.18	33.11	5.55	38.66	5.31	43.96	3.28	47.24	2.80	50.04	6.95	56.99	4.75	61.74	4.75	66.49	
1842	5.59	5.24	10.83	2.11	12.94	2.67	15.61	21.50	28.08	5.89	34.39	4.29	38.68	2.83	41.51	0.00	41.51	0.21	41.72	6.70	48.42	3.22	52.12	3.22	55.34	
1843	114.82	134.37	249.19	131.95	381.14	152.25	533.39	670.28	832.85	186.94	1,019.79	188.72	1,208.51	162.00	1,370.51	162.00	1,532.51	84.35	1,616.86	155.21	1,772.07	5.47	1,827.54	5.47	1,882.01	
1844	3.70	4.30	8.04	4.26	12.29	4.91	17.21	21.62	26.87	6.03	32.90	5.44	38.34	5.23	43.57	3.18	46.74	2.72	49.46	5.01	54.47	4.75	59.22	4.75	63.97	
1845	5.47	1.87	7.14	0.91	8.05	0.81	8.86	12.98	16.66	6.98	23.64	2.61	26.25	6.10	32.35	7.27	39.62	4.80	44.42	3.34	47.76	3.98	51.74	3.98	55.72	
1846	120.29	136.04	256.33	132.86	389.19	153.06	542.25	695.31	848.37	193.92	1,042.23	171.33	1,213.56	168.10	1,381.66	105.78	1,487.44	89.15	1,576.59	158.55	1,735.14	5.47	1,789.61	5.47	1,842.08	
1847	3.76	4.25	8.01	4.15	12.16	4.78	16.95	21.35	26.35	6.05	32.40	5.35	37.75	5.25	43.00	3.31	46.31	2.79	49.10	4.85	53.95	5.47	58.42	5.47	63.89	
1848	5.50	2.84	8.34	4.34	12.68	5.22	17.90	22.64	28.41	4.96	48.17	6.48	54.65	5.51	60.16	3.83	63.99	2.74	66.73	1.98	68.71	5.73	74.44	5.73	79.17	
1849	125.79	138.88	264.67	147.24	411.91	158.88	570.79	729.21	892.72	198.88	1,091.60	177.81	1,269.41	173.61	1,443.02	109.61	1,552.63	81.89	1,634.52	180.53	1,815.05	5.47	1,870.52	5.47	1,925.99	
1850	3.61	4.21	8.02	4.46	12.48	4.82	17.30	21.92	27.05	6.03	33.93	5.39	39.32	5.28	44.60	3.32	47.92	2.78	50.70	6.83	57.53	5.47	62.00	5.47	67.47	
1851	0.96	11.18	11.72	6.74	18.46	14.65	33.11	36.95	42.95	4.61	47.56	7.54	55.10	1.91	57.01	3.09	60.10	1.71	61.81	3.84	65.65	5.47	70.12	5.47	75.59	
1852	126.35	150.04	276.39	153.98	430.37	173.63	604.00	778.16	956.57	203.49	1,159.65	185.35	1,345.00	175.52	1,520.52	112.70	1,633.22	93.80	1,727.02	184.37	1,911.39	5.47	1,966.86	5.47	2,021.33	
1853	3.72	4.41	8.13	4.53	12.66	5.11	17.76	22.33	27.52	5.99	33.50	5.45	38.95	5.16	44.12	3.31	47.43	2.75	50.19	4.83	55.02	5.47	59.49	5.47	64.96	
1854	1.68	7.23																								

TABLE OF RAINFALL IN NEW ORLEANS SINCE ESTABLISHMENT OF RAIN GAGES IN 1894  
RAINFALL AND AVERAGES FOR YEAR 1894 TO DATE

YEAR No.	YEAR	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL AVERAGE	EXCESS OR DEFICIT	
		AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE			
41	1934	5.96	5.96	3.47	9.43	5.40	14.83	4.81	19.64	9.09	28.43	4.86	33.31	6.01	39.32	10.88	50.20	2.01	52.21	2.73	54.94	5.87	60.81	1.90	62.71	5.23	6.54	
	total	162.54	180.97	343.51	524.48	788.07	1312.55	208.02	279.04	527.06	954.12	207.12	1,161.24	251.78	1,413.02	235.32	1,648.34	213.64	1,861.98	141.92	2,003.90	125.87	2,129.77	198.87	2,328.64			
	avg.	3.96	4.41	8.38	12.94	17.96	27.92	6.14	34.06	5.74	39.80	5.21	45.01	6.14	45.01	5.74	39.80	5.21	45.01	3.46	48.48	3.07	51.54	4.83	56.17			
42	1935	2.35	2.35	3.08	5.43	6.91	12.34	7.63	20.07	4.02	25.99	3.57	29.56	7.70	37.26	4.66	41.92	2.94	44.86	0.61	45.47	1.50	47.37	6.66	54.03	4.44	-2.77	
	total	164.89	184.05	348.94	533.99	544.72	713.65	788.37	1,076.74	2,053.74	2,106.69	1,174.43	2,351.12	1,433.91	2,597.82	1,673.89	2,347.78	1,890.17	2,080.16	2,082.77	2,083.38	2,084.88	2,086.38	2,087.88	2,089.38	2,090.88		
	avg.	3.99	4.38	8.31	12.97	16.06	22.95	5.02	27.96	6.18	34.14	5.71	39.85	5.15	45.00	3.39	48.40	3.39	48.40	2.03	51.43	2.99	54.42	4.82	61.24			
43	1936	8.25	8.25	5.11	13.36	2.11	15.47	5.55	21.02	4.36	25.38	0.70	26.08	6.41	32.49	5.89	38.38	4.90	43.28	3.22	46.50	2.94	49.44	3.48	52.92	4.41	-3.11	
	total	173.14	189.16	362.30	551.46	560.19	719.20	779.39	1,058.69	1,488.40	1,742.18	1,200.51	2,603.19	1,494.81	4,098.00	2,458.67	3,147.56	2,831.25	3,114.44	3,433.88	3,755.80	4,077.74	4,396.68	4,715.62	5,034.56	5,353.50		
	avg.	4.03	4.40	8.43	13.03	5.10	18.13	5.10	23.00	4.92	29.82	1.72	31.52	6.18	37.67	5.14	44.96	3.39	48.35	2.03	51.38	1.99	54.37	3.57	61.94			
44	1937	3.84	3.84	2.00	5.84	5.08	10.92	6.85	17.77	3.57	21.44	8.95	30.39	3.72	25.16	5.14	35.30	5.19	40.49	24.44	64.93	1.29	70.25	3.57	73.82	6.16	17.49	
	total	176.98	191.16	368.14	567.30	571.11	726.15	797.26	1,076.46	1,401.96	1,803.91	1,230.90	2,634.80	1,507.51	3,141.41	2,511.01	3,022.00	2,836.89	3,120.88	3,405.32	3,690.24	3,975.16	4,260.08	4,545.00	4,829.88			
	avg.	4.02	4.34	8.37	12.98	5.14	18.12	5.14	22.97	5.01	27.98	6.13	34.10	5.70	39.81	5.14	44.95	3.37	48.32	2.03	51.35	1.99	54.34	3.57	61.91			
45	1938	4.65	4.65	1.70	6.35	1.06	7.43	2.86	10.29	2.40	12.69	3.33	16.02	6.30	24.32	4.19	28.50	5.06	33.56	30.56	64.12	0.85	64.97	2.07	67.04	3.38	-15.51	
	total	181.63	192.86	374.49	567.35	578.54	729.01	807.55	1,076.80	1,401.96	1,803.91	1,230.90	2,634.80	1,507.51	3,141.41	2,511.01	3,022.00	2,836.89	3,120.88	3,405.32	3,690.24	3,975.16	4,260.08	4,545.00	4,829.88			
	avg.	4.04	4.29	8.32	12.86	5.09	17.96	5.09	22.74	4.97	27.71	6.18	33.89	5.67	39.56	5.14	44.70	3.30	48.00	2.03	51.03	1.99	54.02	3.57	61.59			
46	1939	2.08	2.08	3.87	5.95	1.24	7.17	2.99	10.16	10.51	20.67	3.75	24.42	4.90	29.02	5.54	34.56	3.78	37.74	37.74	75.48	0.36	75.84	3.08	78.92	3.63	-12.27	
	total	183.69	196.73	390.42	587.15	595.71	732.00	817.71	1,049.92	1,401.96	1,803.91	1,230.90	2,634.80	1,507.51	3,141.41	2,511.01	3,022.00	2,836.89	3,120.88	3,405.32	3,690.24	3,975.16	4,260.08	4,545.00	4,829.88			
	avg.	3.99	4.28	8.27	12.73	4.48	16.74	5.04	22.69	4.94	27.64	6.14	33.78	5.67	39.45	5.10	44.55	3.37	48.27	2.03	51.30	1.99	54.29	3.57	61.86			
47	1940	4.59	4.59	7.92	12.51	4.23	16.74	10.11	26.85	0.86	27.71	6.83	34.54	9.92	44.46	9.57	54.03	7.79	61.82	1.09	62.91	1.09	64.00	7.64	71.64	5.97	15.50	
	total	186.28	204.65	392.93	597.58	602.45	744.11	844.56	1,049.07	1,401.96	1,803.91	1,230.90	2,634.80	1,507.51	3,141.41	2,511.01	3,022.00	2,836.89	3,120.88	3,405.32	3,690.24	3,975.16	4,260.08	4,545.00	4,829.88			
	avg.	4.01	4.35	8.36	12.82	4.48	16.74	5.15	17.97	4.83	22.80	6.22	27.78	7.78	34.01	5.75	39.78	5.18	44.92	3.67	48.58	2.93	51.51	4.63	58.14			
48	1941	3.90	3.90	2.86	6.56	2.64	9.20	2.74	11.94	2.55	14.49	12.77	27.26	7.53	34.79	5.97	40.76	6.03	46.79	5.54	52.33	1.87	54.00	3.32	57.32	4.78	1.15	
	total	192.18	207.31	399.49	601.24	611.65	744.85	844.85	1,049.07	1,401.96	1,803.91	1,230.90	2,634.80	1,507.51	3,141.41	2,511.01	3,022.00	2,836.89	3,120.88	3,405.32	3,690.24	3,975.16	4,260.08	4,545.00	4,829.88			
	avg.	4.00	4.32	8.32	12.84	4.42	16.74	5.10	17.84	4.78	22.63	5.15	27.77	6.25	34.02	5.76	39.78	5.18	44.96	3.71	48.66	2.90	51.57	4.60	58.17			
49	1942	1.18	1.18	10.13	11.31	7.13	18.44	1.36	19.80	5.83	25.63	14.29	39.92	6.57	46.49	12.09	58.58	4.82	63.40	4.18	67.58	2.22	69.78	3.79	73.57	6.13	17.05	
	total	193.36	217.44	410.85	620.09	630.09	744.85	844.85	1,049.07	1,401.96	1,803.91	1,230.90	2,634.80	1,507.51	3,141.41	2,511.01	3,022.00	2,836.89	3,120.88	3,405.32	3,690.24	3,975.16	4,260.08	4,545.00	4,829.88			
	avg.	3.95	4.44	8.36	12.86	4.48	16.74	5.02	17.88	4.81	22.69	5.33	28.02	6.26	34.28	5.88	40.16	5.17	45.33	3.72	49.05	2.89	51.94	4.59	58.52			
50	1943	2.29	2.29	3.99	6.28	7.88	14.16	11.54	25.70	1.47	15.68	3.11	18.79	6.73	25.52	3.80	29.32	13.20	42.52	0.78	43.30	1.40	44.68	5.04	49.72	4.14	-6.57	
	total	195.65	218.63	414.48	629.16	641.63	744.85	844.85	1,049.07	1,401.96	1,803.91	1,230.90	2,634.80	1,507.51	3,141.41	2,511.01	3,022.00	2,836.89	3,120.88	3,405.32	3,690.24	3,975.16	4,260.08	4,545.00	4,829.88			
	avg.	3.91	4.36	8.29	12.83	4.54	16.74	5.02	17.88	4.76	22.55	5.29	27.84	6.27	34.10	5.84	40.33	5.33	45.27	3.66	48.93	2.86	51.79	4.60	58.39			
51	1944	8.02	8.02	4.70	12.72	5.93	18.65	9.21	27.86	4.27	32.13	3.29	35.42	4.32	39.81	6.19	46.00	5.68	51.68	0.98	52.66	12.12	64.74	2.37	67.11	5.59	10.51	
	total	203.67	223.53	427.20	650.73	660.28	800.28	892.69	1,084.93	1,401.96	1,803.91	1,230.90	2,634.80	1,507.51	3,141.41	2,511.01	3,022.00	2,836.89	3,120.88	3,405.32	3,690.24	3,975.16	4,260.08	4,545.00	4,829.88			
	avg.	3.99	4.38	8.36	12.96	4.57	16.74	5.04	17.96	4.75	22.74	5.25	27.99	6.23	34.21	5.85	41.08	5.34	45.40	3.61	49.01	3.04	52.05	4.55	58.60			
52	1945	4.69	4.69	4.69	9.38	2.30	11.68	5.35	17.03	2.82	19.85	4.02	23.87	12.01	35.88	5.16	41.04	6.70	47.74	2.58	50.32	2.63	52.95	5.31	58.26	4.86	1.63	
	total	208.36	228.22	436.58	663.16	671.96	800.28	892.69	1,084.93	1,401.96	1,803.91	1,230.90	2,634.80	1,507.51	3,141.41	2,511.01	3,022.00	2,836.89	3,120.88	3,405.32	3,690.24	3,975.16	4,260.08	4,545.00	4,829.88			
	avg.	4.01	4.39	8.40	12.92	4.53	16.74	5.04	17.97	4.72	22.68	5.23	27.91	6.34	34.25	5.84	40.06	5.36	45.44	3.59	49.03	3.03	52.06	4.57	58.63			
53	1946	5.13	5.13	3.82	8.95	15.10	24.05	3.28	27.33	8.53	35.86	7.22	43.08	5.70	48.78	4.50	53.28	8.25	61.53	0.21	61.74	3.31	65.05	2.37	67.42	5.82	10.59	
	total	213.49	232.04	445.53	688.01	696.01	830.01	922.51	1,049.07	1,401.96	1,803.91	1,230.90	2,634.80	1,507.51	3,141.41	2,511.01	3,022.00	2,836.89	3,120.88	3,405.32	3,690.24	3,975.16	4,260.08	4,545.00	4,829.88			
	avg.	4.03	4.38	8.41	12.9																							

TABLE OF RAINFALL IN NEW ORLEANS SINCE ESTABLISHMENT OF RAIN GAGES IN 1864  
 RAINFALL AND AVERAGES FOR "YEAR 1864 TO DATE"

YEAR No.	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL AVERAGE	EXCESS OR DEFICIT	
	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE			
1864	3.58	1.57	5.15	7.79	1.00	8.79	3.95	12.74	3.58	16.32	8.04	24.36	3.75	28.11	5.96	34.07	3.67	37.74	2.81	40.55	5.08	45.63	3.80	49.43	3.80	-11.25	
1865	242.72	259.57	502.29	814.21	308.82	1,123.03	276.44	1,399.47	316.15	1,715.62	369.40	2,105.02	347.14	2,452.16	328.24	2,780.40	201.02	2,981.42	203.40	3,184.82	285.21	3,470.03	3.30	3,855.33	3.30	4,240.63	
1866	3.98	4.26	8.23	13.35	5.08	18.41	4.53	22.94	5.18	28.12	6.38	34.51	5.69	40.20	5.38	45.58	3.30	48.88	3.30	52.18	4.68	56.86	5.44	62.30	5.44	67.74	
1867	6.09	5.92	11.71	18.70	6.86	25.56	4.86	30.42	7.75	38.27	12.17	50.44	12.35	62.79	7.19	69.98	1.53	71.51	3.24	74.75	6.25	81.00	7.79	88.79	7.79	96.58	
1868	248.81	295.19	514.00	828.01	315.78	1,143.79	281.30	1,425.09	318.90	1,743.99	401.57	2,145.56	359.49	2,505.05	335.43	2,840.48	202.55	3,043.03	208.64	3,251.67	287.58	3,539.25	3.30	3,926.55	3.30	4,313.85	
1869	4.01	4.28	8.29	13.32	5.09	18.42	4.54	22.96	5.14	28.10	6.48	34.57	5.80	40.37	5.41	45.78	3.27	49.05	3.30	52.35	4.64	57.02	5.45	62.47	5.45	67.92	
1870	2.22	8.44	10.66	4.24	14.90	3.86	18.76	4.96	23.72	11.80	35.52	6.87	42.39	3.97	46.36	9.79	56.15	1.23	57.38	1.37	58.75	6.60	65.35	6.60	71.95	6.60	78.55
1871	251.03	273.63	524.66	840.91	319.64	1,160.55	286.26	1,446.81	330.70	1,777.51	408.44	2,185.95	363.46	2,549.41	345.22	2,894.63	203.78	3,098.41	208.01	3,306.42	284.18	3,590.60	3.30	3,980.90	3.30	4,371.20	
1872	3.98	4.34	8.33	13.35	5.07	18.42	4.54	22.97	5.23	28.21	6.48	34.70	5.77	40.47	5.48	45.95	3.23	49.18	3.30	52.48	4.67	57.15	5.45	62.60	5.45	68.05	
1873	1.30	2.42	3.72	9.44	13.16	18.90	2.88	21.78	7.88	29.66	5.77	35.43	7.12	42.55	11.49	54.04	1.67	55.71	3.95	59.66	3.28	62.94	5.25	68.19	5.25	73.44	
1874	252.33	276.05	528.38	854.07	325.38	1,179.45	288.14	1,467.59	338.58	1,806.17	414.21	2,220.38	370.58	2,590.96	356.71	2,947.67	205.45	3,153.12	211.96	3,365.08	297.46	3,662.54	3.30	4,050.04	3.30	4,437.54	
1875	3.94	4.31	8.26	13.34	5.08	18.43	4.52	22.95	5.29	28.24	6.47	34.71	5.79	40.50	5.57	46.07	3.21	49.28	3.31	52.59	4.65	57.24	5.45	62.69	5.45	68.14	
1876	6.03	3.61	9.64	17.90	3.18	21.08	4.28	25.36	5.29	30.65	6.88	37.53	6.11	43.64	5.98	49.62	1.03	50.65	1.18	51.83	1.30	53.13	4.59	57.72	4.59	62.21	
1877	258.38	279.68	538.02	871.97	328.58	1,200.55	296.39	1,496.94	342.44	1,839.38	422.89	2,262.27	375.39	2,637.66	362.67	3,000.31	206.46	3,206.77	213.12	3,419.89	298.78	3,718.67	3.30	4,108.97	3.30	4,499.27	
1878	3.45	10.63	14.08	4.29	18.37	3.77	22.14	11.90	34.04	5.98	39.93	14.24	54.17	5.33	59.50	3.03	62.53	7.18	69.71	1.05	70.76	2.30	73.06	6.09	79.15	6.09	85.24
1879	261.81	290.29	552.10	880.34	332.33	1,212.67	308.19	1,520.86	348.43	1,869.29	437.13	2,306.42	390.72	2,697.14	365.70	3,062.84	213.66	3,276.50	214.17	3,490.67	301.08	3,791.75	3.30	4,183.05	3.30	4,575.35	
1880	3.97	4.40	8.37	13.49	5.04	18.53	4.67	23.19	5.28	28.47	6.62	35.10	5.77	40.87	5.54	46.41	3.24	49.65	3.25	52.90	4.58	57.48	5.45	62.93	5.45	68.38	
1881	4.40	5.40	9.80	14.65	6.58	21.21	4.41	25.62	1.78	27.40	6.12	33.52	7.15	40.67	3.98	44.65	4.12	48.77	3.21	51.98	4.04	56.02	4.87	60.89	4.87	65.76	
1882	286.21	295.69	581.90	884.99	338.69	1,223.68	312.60	1,536.28	350.21	1,886.49	443.25	2,329.74	387.87	2,717.61	369.68	3,087.29	217.38	3,304.67	217.38	3,522.05	305.10	3,827.15	3.30	4,219.45	3.30	4,611.75	
1883	3.97	4.41	8.39	13.51	5.08	18.59	4.67	23.23	5.23	28.46	6.62	35.07	5.79	40.86	5.52	46.38	3.25	49.63	3.24	52.88	4.58	57.46	5.45	62.91	5.45	68.36	
1884	6.68	8.63	15.29	22.13	4.28	26.39	6.58	32.96	10.76	43.71	7.75	51.46	5.24	56.70	5.87	62.57	3.38	65.95	6.00	71.95	6.77	78.72	8.54	87.26	8.54	95.80	
1885	372.87	394.32	577.19	944.87	349.93	1,294.80	319.16	1,613.96	360.97	1,974.93	451.00	2,425.93	382.08	2,808.01	375.35	3,183.36	221.14	3,404.50	213.12	3,617.62	311.87	3,929.49	3.30	4,311.79	3.30	4,694.09	
1886	4.01	4.48	8.49	13.53	5.05	18.58	4.69	23.37	5.31	28.68	6.63	35.31	5.78	41.10	5.52	46.62	3.25	49.87	3.29	53.15	4.58	57.74	5.45	62.99	5.45	68.44	
1887	3.40	1.75	5.15	6.33	3.12	9.46	0.80	10.25	6.63	16.88	3.28	22.14	5.85	27.99	4.31	32.30	1.70	34.00	2.91	36.91	2.77	39.68	3.31	42.99	3.31	46.30	
1888	276.27	306.07	592.34	891.11	351.11	1,242.22	319.96	1,562.18	369.60	1,931.78	454.26	2,386.04	398.96	2,785.00	379.68	3,164.68	222.84	3,387.52	217.38	3,604.90	345.29	3,950.19	3.30	4,335.49	3.30	4,720.79	
1889	4.00	4.44	8.44	13.53	5.02	18.61	4.64	23.18	5.36	28.54	6.58	35.12	5.78	40.91	5.50	46.41	3.23	49.64	3.28	52.92	4.58	57.50	5.45	62.95	5.45	68.40	
1890	4.71	5.65	10.36	11.42	1.99	13.41	1.55	14.96	8.27	23.23	6.49	29.72	3.12	32.84	7.60	40.44	0.00	40.44	6.41	46.85	5.21	52.06	4.51	56.57	4.51	61.08	
1891	280.98	311.72	592.70	884.67	352.17	1,236.84	317.51	1,554.35	377.87	1,932.22	460.75	2,392.97	402.08	2,795.05	387.28	3,182.33	222.84	3,405.17	217.38	3,622.55	345.70	3,968.25	3.30	4,353.55	3.30	4,738.85	
1892	4.01	4.45	8.47	13.50	4.98	18.47	4.59	23.07	5.40	28.46	6.58	35.05	5.74	40.79	5.53	46.32	3.18	49.51	3.35	52.86	4.57	57.43	5.45	62.88	5.45	68.33	
1893	10.52	5.39	15.91	6.03	8.55	14.58	1.24	15.82	31.73	47.04	7.67	43.44	5.10	48.54	4.68	53.22	4.20	57.42	3.16	60.58	2.93	63.51	5.28	68.79	5.28	74.07	
1894	291.50	317.11	608.61	898.20	356.81	1,255.01	322.75	1,577.76	381.91	2,059.67	468.42	2,528.09	407.18	2,935.27	391.94	3,327.21	227.04	3,554.25	217.38	3,771.63	345.29	4,116.92	3.30	4,502.22	3.30	4,887.52	
1895	4.11	4.47	8.57	13.62	5.03	18.64	4.55	23.19	5.38	28.57	6.60	35.16	5.73	40.90	5.52	46.42	3.20	49.62	3.35	52.97	4.54	57.51	5.45	62.96	5.45	68.41	
1896	6.90	5.18	12.08	3.04	15.12	1.31	16.43	3.59	20.02	5.36	25.37	4.77	30.14	9.15	39.29	6.78	46.05	1.07	47.12	1.80	48.92	6.71	55.63	6.71	62.34		
1897	286.40	322.28	620.69	911.24	358.12	1,270.36	319.16	1,589.52	360.97	1,950.49	451.00	2,401.49	382.08	2,783.57	375.35	3,168.92	221.14	3,389.06	213.12	3,600.18	311.87	3,912.05	3.30	4,303.35	3.30	4,694.65	
1898	4.14	4.48	8.52	13.64	4.97	18.61	4.53	23.14	5.38	28.52	6.57	35.10	5.78	40.88	5.54	46.41	3.17	49.58	3.33	52.91	4.57	57.48	5.45	62.93	5.45	68.38	
1899	12.20	9.14	21.34	3.41	24.75	6.88	31.63	7.75	39.38	2.30	41.68	9.24	50.92	7.82	58.74	6.54	65.28	2.95	68.23	0.52	68.75	5.36	74.11	6.18	80.29		
1900	310.60	331.43	642.03	984.65	365.00	1,349.65	334.08	1,705.77	389.56	2,095.33	482.43	2,577.76	424.15	3,001.91	405.24	3,407.15	231.06	3,638.21	229.98	3,868.19	334.75	4,202.94	3.30	4,588.24	3.30	4,973.54	
1901	4.25	4.54	8.79	13.79	5.00	18.79	4.58	23.37	5.34	28.70	6.61	35.31	5.81	41.12	5.55	46.67	3.17	49.84	3.29	53.13	4.59	57.71	5.45	62.96	5.45	68.41	
1902	314.20	338.58	652.78	988.19	367.93	1,356.90	337.09																				

TABLE OF RAINFALL IN NEW ORLEANS SINCE ESTABLISHMENT OF RAIN GAGES IN 1894  
RAINFALL AND AVERAGES FOR YEAR 1894 TO DATE

YEAR No.	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL AVERAGE	EXCESS OR DEFICIT
	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE		
1894	7.48	12.04	4.56	17.08	5.49	22.57	10.96	33.55	1.93	35.48	5.70	41.18	7.87	49.05	5.99	55.04	0.53	55.57	6.83	62.40	5.00	67.40	5.92	73.32	5.92	79.24
1895	340.04	706.12	368.06	1,115.72	395.46	1,511.20	379.99	1,890.79	419.23	2,310.02	537.39	2,847.41	476.44	3,323.85	458.34	3,782.19	254.86	4,037.07	271.11	4,308.18	367.57	4,675.75	4.99	5,025.74	4.99	5,475.73
1896	4.20	8.74	4.54	13.77	4.88	18.66	4.69	23.34	5.18	28.52	6.63	35.15	8.66	43.81	5.98	49.79	3.15	52.94	3.35	56.29	4.78	61.07	6.02	67.09	6.02	73.11
1897	3.59	6.46	4.89	11.35	5.72	19.30	7.67	26.97	13.06	40.06	7.89	47.95	6.90	54.85	5.38	60.23	2.76	62.99	4.15	67.14	3.39	70.53	6.02	76.55	6.02	82.57
1898	343.63	716.90	372.97	1,129.90	401.20	1,530.50	387.28	1,917.78	432.32	2,350.08	545.28	2,895.36	465.04	3,360.40	463.72	3,824.12	257.64	4,081.76	275.26	4,357.02	390.96	4,747.98	5.82	5,139.80	5.82	5,531.62
1899	4.19	8.74	4.55	13.77	4.89	18.66	4.72	23.34	5.27	28.61	6.85	35.46	8.88	44.34	6.24	50.58	3.14	53.72	3.36	57.08	4.77	61.85	7.54	69.39	7.54	76.93
1900	2.23	3.75	3.75	7.50	0.90	8.40	6.71	15.11	6.22	21.33	6.45	27.78	3.46	31.24	1.68	32.92	34.11	67.03	34.11	101.14	67.03	168.17	4.54	172.71	4.54	177.25
1901	345.86	722.58	376.72	1,138.09	402.00	1,540.09	393.97	1,934.06	438.54	2,372.60	551.73	2,924.33	468.50	3,412.83	466.40	3,879.23	263.29	4,142.52	281.31	4,423.83	399.67	4,823.50	5.82	5,215.32	5.82	5,607.14
1902	4.17	8.74	4.54	13.77	4.84	18.66	4.73	23.34	5.28	28.62	6.65	35.27	8.68	43.95	6.01	50.06	3.17	53.23	3.39	56.62	4.82	61.44	7.54	68.98	7.54	76.52
1903	5.40	8.15	6.58	14.71	3.57	18.28	2.09	20.37	1.18	21.55	4.85	26.40	15.96	37.36	5.89	43.25	51.42	94.67	51.42	146.09	95.59	141.68	5.85	147.53	5.85	153.38
1904	351.26	730.73	379.47	1,152.80	405.57	1,558.37	395.05	1,953.42	439.72	2,393.14	566.58	2,959.72	504.46	3,464.18	474.46	3,938.64	268.01	4,206.65	286.01	4,492.66	403.80	4,896.46	5.82	5,291.28	5.82	5,682.10
1905	4.18	8.70	4.52	13.72	4.83	18.55	4.72	23.27	5.23	28.50	6.83	35.33	8.86	44.16	6.19	50.35	3.19	53.54	3.44	56.98	4.80	61.78	7.54	69.32	7.54	76.86
1906	11.10	13.37	3.58	16.95	2.98	19.94	10.85	30.79	8.04	38.83	7.03	45.86	7.46	53.32	3.16	56.48	0.00	56.48	3.46	60.04	5.44	65.48	8.95	74.43	8.95	83.38
1907	352.36	744.10	381.74	1,169.75	408.96	1,578.71	396.71	1,975.42	447.76	2,423.18	563.61	2,986.79	511.92	3,548.71	483.17	4,031.88	268.01	4,300.89	286.01	4,586.90	409.04	4,995.94	5.82	5,391.76	5.82	5,782.58
1908	4.28	8.75	4.49	13.76	4.81	18.57	4.78	23.35	5.27	28.62	6.63	35.25	8.66	43.91	6.01	50.06	3.16	53.22	3.46	56.68	4.81	61.49	7.54	68.93	7.54	76.47
1909	5.49	8.95	4.49	13.76	4.81	18.57	4.78	23.35	5.27	28.62	6.63	35.25	8.66	43.91	6.01	50.06	3.16	53.22	3.46	56.68	4.81	61.49	7.54	68.93	7.54	76.47
1910	367.85	781.07	393.22	1,191.09	412.22	1,603.31	411.50	2,014.81	448.97	2,463.78	572.84	3,036.62	516.25	3,552.87	483.17	4,036.04	269.15	4,305.19	289.00	4,594.19	411.83	4,966.02	5.82	5,357.84	5.82	5,749.66
1911	4.28	8.95	4.49	13.76	4.81	18.57	4.78	23.35	5.27	28.62	6.63	35.25	8.66	43.91	6.01	50.06	3.16	53.22	3.46	56.68	4.81	61.49	7.54	68.93	7.54	76.47
1912	5.29	8.84	4.80	13.67	4.91	18.78	4.81	23.59	5.23	28.82	6.61	35.43	8.65	44.08	3.14	47.22	0.00	47.22	3.46	50.68	5.14	55.82	6.01	61.83	6.01	67.84
1913	4.25	8.84	4.80	13.67	4.91	18.78	4.81	23.59	5.23	28.82	6.61	35.43	8.65	44.08	3.14	47.22	0.00	47.22	3.46	50.68	5.14	55.82	6.01	61.83	6.01	67.84
1914	1.75	5.64	7.59	13.04	7.44	18.48	3.33	21.81	3.83	25.64	8.14	33.78	5.59	39.37	4.83	44.20	3.82	48.02	3.46	51.48	10.18	61.67	5.14	66.81	5.14	71.95
1915	375.47	786.69	445.75	1,231.44	439.67	1,671.11	426.93	2,098.04	463.66	2,561.70	530.22	3,151.92	530.87	3,682.79	496.43	4,179.22	280.07	4,459.29	308.46	4,767.75	413.61	5,181.36	5.82	5,635.18	5.82	6,089.00
1916	4.22	8.83	4.81	13.64	4.94	18.72	4.80	23.57	5.21	28.78	6.63	35.41	8.68	44.09	3.14	47.23	0.00	47.23	3.46	50.69	5.14	55.83	6.01	61.84	6.01	67.85
1917	4.81	8.91	4.81	13.72	4.81	18.78	4.81	23.59	5.23	28.82	6.61	35.43	8.65	44.08	3.14	47.22	0.00	47.22	3.46	50.68	5.14	55.82	6.01	61.83	6.01	67.84
1918	360.28	799.41	449.89	1,249.30	457.54	1,706.84	430.84	2,137.68	472.94	2,610.62	593.14	3,203.76	536.79	3,740.55	503.25	4,243.80	284.30	4,528.10	310.75	4,838.85	438.33	5,277.18	5.82	5,731.00	5.82	6,184.82
1919	4.23	8.88	4.86	13.74	4.86	18.64	4.79	23.43	5.25	29.01	6.89	35.90	8.92	44.82	3.16	47.98	0.00	47.98	3.46	51.44	10.18	61.62	5.14	66.76	5.14	71.90
1920	3.70	5.00	3.90	12.60	1.84	14.44	2.53	16.97	5.08	22.05	5.50	27.55	6.62	34.17	1.61	35.78	2.12	37.90	2.56	40.46	1.85	42.30	3.53	45.83	3.53	50.36
1921	363.98	808.11	453.79	1,261.90	459.36	1,721.26	433.37	2,154.63	478.02	2,632.65	596.64	3,231.31	543.41	3,774.72	504.66	4,279.38	286.42	4,565.80	313.30	4,879.10	440.16	5,319.26	5.82	5,773.08	5.82	6,226.90
1922	4.22	8.88	4.86	13.74	4.86	18.64	4.79	23.43	5.25	29.01	6.89	35.90	8.92	44.82	3.16	47.98	0.00	47.98	3.46	51.44	10.18	61.62	5.14	66.76	5.14	71.90
1923	4.50	6.50	6.50	11.00	6.93	17.93	0.47	18.40	1.06	19.46	3.34	22.80	7.63	30.43	7.18	37.61	6.21	43.82	15.00	58.82	1.08	60.88	4.07	64.95	4.07	69.02
1924	368.46	819.11	460.72	1,279.83	459.85	1,739.68	434.43	2,174.11	481.36	2,655.47	608.27	3,263.74	550.59	3,814.33	511.07	4,325.40	301.42	4,626.82	314.36	4,941.18	444.25	5,385.43	5.82	5,839.25	5.82	6,293.07
1925	4.22	8.89	4.89	13.78	4.81	18.78	4.81	23.59	5.23	28.82	6.61	35.43	8.65	44.08	3.14	47.22	0.00	47.22	3.46	50.68	5.14	55.82	6.01	61.83	6.01	67.84
1926	3.57	4.33	7.90	13.90	3.00	12.28	1.83	14.11	5.81	19.92	5.67	25.59	5.94	31.53	3.43	34.96	2.25	37.21	6.56	43.77	4.79	48.56	4.05	53.61	4.05	58.66
1927	392.05	827.01	463.72	1,290.73	461.23	1,751.96	436.26	2,188.22	487.17	2,675.39	611.94	3,287.33	556.53	3,843.86	514.50	4,358.36	303.67	4,662.03	320.92	4,982.95	448.04	5,431.99	5.82	5,886.81	5.82	6,341.63
1928	4.22	8.89	4.89	13.78	4.81	18.78	4.81	23.59	5.23	28.82	6.61	35.43	8.65	44.08	3.14	47.22	0.00	47.22	3.46	50.68	5.14	55.82	6.01	61.83	6.01	67.84
1929	6.88	6.36	15.06	5.37	20.43	1.31	21.74	5.09	26.83	9.77	36.60	4.07	40.67	4.37	45.04	2.21	47.25	0.43	47.68	3.36	51.05	2.14	53.19	2.14	58.33	
1930	400.73	842.07	469.09	1,311.16	462.54	1,773.70	441.35	2,215.05	496.94	2,711.99	616.01	3,328.00	560.90	3,888.90	516.72	4,405.62	304.10	4,709.72	324.28	5,034.00	451.18	5,485.18	5.82	5,939.00	5.82	6,393.82
1931	4.28	8.95	4.70	13.65	4.99	19.67	4.70	23.96	5.29	29.25	6.85	36.10	8.98	45.08	3.16	48.24	0.00	48.24	3.46	51.70	10.18	61.88	5.14	66.92	5.14	71.96
1932	4.19	10.92	15.11	8.58	23.69	11.24	34.93	2.34	37.27																	



TABLE OF RAINFALL IN NEW ORLEANS SINCE ESTABLISHMENT OF RAIN GAGES IN 1894  
RAINFALL AND AVERAGES FOR YEAR 1894 TO DATE

YEAR No.	YEAR	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL MONTHLY AVERAGE	EXCESS OR DEFICIT
		AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE	AMOUNT	TOTAL TO DATE		
101	1894	3.22	3.22	0.43	3.65	5.14	8.79	1.44	10.23	6.21	16.44	7.68	24.32	9.14	33.46	4.00	37.46	7.00	44.46	3.27	47.73	2.40	50.13	3.75	53.88	4.89	-5.41
	total	462.86	477.95	940.81	1,458.61	517.80	1,458.61	506.52	1,965.13	484.90	2,450.03	550.42	3,000.45	660.78	3,661.23	601.82	4,263.05	556.24	4,819.29	319.51	5,138.80	368.34	5,507.14	481.50	5,988.64		
	avg.	4.58	4.73	9.31	14.44	5.02	14.44	5.02	19.46	4.80	24.28	5.45	29.71	6.54	36.25	5.96	42.21	5.51	47.72	3.16	50.88	3.85	54.53	4.77	59.29		
102	1895	3.53	3.53	4.96	8.49	9.79	18.28	5.17	23.45	20.91	44.36	1.98	46.34	7.67	54.01	2.99	57.00	1.20	58.20	2.05	60.25	2.89	63.14	3.80	66.94	5.57	7.47
	total	468.39	482.91	949.30	1,476.89	527.59	1,476.89	511.69	1,988.58	505.81	2,494.39	552.40	3,046.79	668.45	3,715.24	604.81	4,320.05	557.44	4,877.49	321.56	5,199.05	371.33	5,570.38	485.10	6,055.48		
	avg.	4.57	4.73	9.31	14.48	5.02	14.48	5.02	19.50	4.96	24.45	5.42	29.87	6.55	36.42	5.93	42.35	5.47	47.82	3.15	50.97	3.64	54.61	4.78	59.37		
103	1896	3.52	3.52	2.55	6.07	4.47	10.54	4.82	15.46	2.41	17.87	5.90	23.77	7.27	31.04	5.82	36.86	3.11	39.97	0.97	40.94	3.42	44.36	4.68	49.02	4.08	-10.25
	total	469.91	495.46	955.37	1,487.43	532.06	1,487.43	516.61	2,004.04	506.22	2,512.26	558.30	3,070.56	675.72	3,746.28	610.63	4,356.91	580.55	4,917.46	322.53	5,239.99	374.75	5,614.74	489.78	6,104.50		
	avg.	4.56	4.71	9.28	14.44	5.02	14.44	5.02	19.46	4.93	24.39	5.42	29.81	6.56	36.37	5.93	42.30	5.44	47.74	3.13	50.87	3.64	54.51	4.75	59.27		
104	1897	5.04	5.04	3.76	8.80	3.50	12.30	5.43	17.73	5.48	23.21	4.84	28.05	4.30	32.35	1.92	34.27	0.52	34.79	1.21	36.00	7.26	43.26	1.90	45.16	3.76	-13.97
	total	474.95	489.22	964.17	1,489.73	522.04	2,021.77	522.04	2,543.81	513.70	2,535.47	563.14	3,098.91	680.02	3,778.93	612.55	4,391.18	561.07	4,952.25	322.74	5,275.99	382.01	5,658.00	491.68	6,149.68		
	avg.	4.57	4.70	9.27	14.42	5.02	14.42	5.02	19.44	4.94	24.38	5.41	29.79	6.54	36.33	5.89	42.22	5.39	47.62	3.11	50.73	3.67	54.40	4.73	59.13		
105	1898	10.70	10.70	5.03	15.73	9.28	25.01	4.12	29.13	0.74	29.87	3.28	33.15	5.02	38.17	7.59	45.76	26.90	72.66	0.99	73.65	3.65	77.30	1.74	79.04	6.59	19.72
	total	485.65	494.25	979.90	1,524.74	544.84	1,524.74	526.16	2,050.90	514.44	2,565.34	566.42	3,131.76	685.04	3,816.80	620.14	4,436.94	587.97	5,024.91	324.73	5,349.64	385.66	5,735.30	493.40	6,228.70		
	avg.	4.63	4.71	9.33	14.52	5.01	14.52	5.01	19.53	4.90	24.43	5.39	29.83	6.52	36.35	5.91	42.26	5.80	47.96	3.09	50.95	3.67	54.62	4.70	59.32		
106	1899	3.08	3.08	0.45	3.51	4.18	7.69	0.03	7.72	4.86	12.56	10.37	22.93	2.84	25.79	3.97	29.76	4.00	33.76	4.07	37.83	0.16	37.99	2.78	40.75	3.40	-18.40
	total	488.71	494.70	983.41	1,532.43	526.19	1,532.43	526.19	2,058.62	519.30	2,577.92	578.79	3,154.71	687.88	3,842.59	624.11	4,468.70	597.97	5,066.67	328.80	5,395.47	385.82	5,773.29	496.16	6,269.45		
	avg.	4.61	4.67	9.28	14.46	4.96	14.46	4.96	19.42	4.90	24.32	5.44	29.76	6.49	36.25	5.89	42.14	5.58	47.72	3.10	50.83	3.64	54.47	4.68	59.15		
107	2000	2.60	2.60	0.86	3.46	1.75	5.21	1.36	6.57	0.37	6.94	6.69	13.63	1.71	15.34	3.27	18.61	6.39	25.00	2.53	27.53	13.43	40.96	3.27	44.23	3.89	-14.78
	total	491.31	495.56	996.87	1,537.64	527.55	2,065.19	527.55	2,592.74	519.67	2,584.86	583.48	3,168.34	689.59	3,857.93	627.36	4,485.31	596.36	5,081.67	331.33	5,413.00	399.25	5,812.25	499.43	6,311.68		
	avg.	4.59	4.63	9.22	14.37	4.93	14.37	4.93	19.30	4.86	24.16	5.45	29.81	6.44	36.08	5.86	41.82	5.59	47.51	3.10	50.61	3.73	54.34	4.67	59.01		
108	2001	3.02	3.02	1.04	4.06	11.44	15.50	0.53	16.03	2.02	18.05	19.08	37.13	7.47	44.60	7.04	51.64	5.62	57.26	4.35	61.61	3.29	64.90	3.02	67.92	5.66	8.83
	total	494.33	498.60	999.93	1,553.14	528.08	2,081.22	528.08	2,609.30	521.69	2,602.91	602.56	3,205.47	687.06	3,892.53	634.42	4,526.95	603.98	5,130.93	305.68	5,436.61	402.54	5,839.15	502.45	6,341.60		
	avg.	4.58	4.60	9.18	14.36	4.89	14.36	4.89	19.27	4.83	24.10	5.58	29.68	6.45	36.13	5.87	42.01	5.59	47.60	3.11	50.71	3.73	54.44	4.65	59.09		

BENCHMARKING 2001  
COST OF OPERATIONS IDENTIFICATION PROGRAM

ADMINISTRATIVE SERVICES DEPARTMENT

Insurance Cost per Employee:

Workers' Compensation	\$ 2,058.00
Auto Liability	\$ 3,552.00
General Liability	\$ 1,834.00

ENGINEERING DEPARTMENT

Cost to Design a Project	5.8% of Project Cost
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ENVIRONMENTAL DEPARTMENT

Cost of Typical Industry Sampling Event	\$ 342.51
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FACILITY MAINTENANCE DEPARTMENT

Cost to set 5/8" water meter	\$ 64.98
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MANAGEMENT SERVICES DEPARTMENT

ACCOUNTING:

Cost to Process a Miscellaneous Invoice	\$ 7.73
Cost to process a Vendor Invoice	\$ 5.35
Cost to process a Paycheck	\$ 3.07

INFORMATION SYSTEMS:

Cost to Image a Document	\$ 0.43
Cost to Retrieve a Document From the Imaging System	\$ 3.49
Cost to Retrieve a Document From the Microfiche Files/Storage	\$ 22.55

PERSONNEL:

Cost to Hire an Employee	\$ 468.93
Cost to complete a Voluntary Employee Termination	\$ 14.44
Employee Turnover Rate	13%

Cost to Train an Employee:	\$ 286.23
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**PURCHASING:**

Cost to Process a Sundry Purchase Order \$ 14.84

**REVENUE:**

Cost to Read a Meter \$ 0.32

Cost to Render a Bill  
(Less Meter Reading) \$ 0.48

Cost to Manage a Customer by Phone \$ 2.00

Cost to Manage a Customer by Mail \$ 1.29

Cost to Manage a Walk-in Customer \$ 3.58

Cost to Process a Mail-in Payment \$ 0.31

Cost to Process a Walk-in Payment \$ 2.47

**SUPPORT SERVICES DEPARTMENT**

Average Annual Maintenance Cost  
per Piece of Equipment \$1,412.00

Average Percent of Fleet Down for 2001 20%

**SEWERAGE & WATER BOARD OF NEW ORLEANS**

Single Audit Reports

December 31, 2001

**SEWERAGE AND WATER BOARD OF NEW ORLEANS  
New Orleans, Louisiana**

**Single Audit Reports**

**December 31, 2001**

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**Postlethwaite & Netterville**

A Professional Accounting Corporation  
Associated Offices in Principal Cities of the United States



**REPORT ON COMPLIANCE AND ON INTERNAL CONTROL OVER FINANCIAL REPORTING BASED ON AN AUDIT OF GENERAL PURPOSE FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS***

To the Members of the Board  
Sewerage and Water Board of New Orleans:

We have audited the general purpose financial statements of the Sewerage and Water Board of New Orleans (the Board) as of and for the year ended December 31, 2001, and have issued our report thereon dated March 28, 2002. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States.

Compliance

As part of obtaining reasonable assurance about whether the Board's general purpose financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts and grants, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit and, accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance that are required to be reported under *Government Auditing Standards*.

Internal Control Over Financial Reporting

In planning and performing our audit, we considered the Board's internal control over financial reporting in order to determine our auditing procedures for the purpose of expressing our opinion on the general purpose financial statements and not to provide assurance on the internal control over financial reporting. Our consideration of the internal control over financial reporting would not necessarily disclose all matters in the internal control over financial reporting that might be material weaknesses. A material weakness is a condition in which the design or operation of one or more of the internal control components does not reduce to a relatively low level the risk that misstatements in amounts that would be material in relation to the general purpose financial statements being audited may occur and not be detected within a timely period by employees in the normal course of performing their assigned functions. We noted no matters involving the internal control over financial reporting and its operation that we consider to be material weaknesses. However, we noted other matters involving the internal control over financial reporting, which we have reported to management of the Board in a separate letter dated March 28, 2002.

This report is intended solely for the information of the Board, the Board's management and federal awarding agencies and pass-through entities, such as the State of Louisiana and Legislative Auditor's Office, and is not intended to be and should not be used by anyone other than these specified parties.

*Postlethwaite & Netterville*

*Bruno & Jervolan LLP*

March 28, 2002



**Postlethwaite & Netterville**

*A Professional Accounting Corporation*  
Associated Offices in Principal Cities of the United States



**REPORT ON COMPLIANCE WITH REQUIREMENTS APPLICABLE TO THE MAJOR PROGRAM, ON INTERNAL CONTROL OVER COMPLIANCE IN ACCORDANCE WITH OMB CIRCULAR A-133 AND THE SCHEDULE OF EXPENDITURES OF FEDERAL AWARDS**

To the Members of the Board  
Sewerage and Water Board of New Orleans:

Compliance

We have audited the compliance of the Sewerage and Water Board of New Orleans (the Board) with the types of compliance requirements described in the *U. S. Office of Management and Budget (OMB) Circular A-133 Compliance Supplement* that are applicable to its major federal program for the year ended December 31, 2001. The Board's major federal program is identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs. Compliance with the requirements of laws, regulations, contracts and grants applicable to its major federal program is the responsibility of the Board's management. Our responsibility is to express an opinion on the Board's compliance based on our audit.

We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and OMB Circular A-133, *Audits of States, Local Governments, and Non-Profit Organizations*. Those standards and OMB Circular A-133 require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the Board's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion. Our audit does not provide a legal determination on the Board's compliance with those requirements.

In our opinion, the Board complied, in all material respects, with the requirements referred to above that are applicable to its major federal program for the year ended December 31, 2001.

Internal Control Over Compliance

The management of the Board is responsible for establishing and maintaining effective internal control over compliance with the requirements of laws, regulations, contracts, and grants applicable to federal programs. In planning and performing our audit, we considered the Board's internal control over compliance with requirements that could have a direct and material effect on a major federal program in order to determine our auditing procedures for the purpose of expressing our opinion on compliance and to test and report on internal control over compliance in accordance with OMB Circular A-133.

Our consideration of the internal control over compliance would not necessarily disclose all matters in the internal control that might be material weaknesses. A material weakness is a condition in which the design or



operation of one or more of the internal control components does not reduce to a relatively low level the risk that noncompliance with applicable requirements of laws, regulations, contracts, and grants that would be material in relation to a major federal program being audited may occur and not be detected within a timely period by employees in the normal course of performing their assigned functions. We noted no matters involving the internal control over compliance and its operation that we consider to be material weaknesses.

Schedule of Expenditures of Federal Awards

We have audited the general purpose financial statements of the Board as of and for the year ended December 31, 2001, and have issued our report thereon dated March 28, 2002. Our audit was performed for the purpose of forming an opinion on the general purpose financial statements taken as a whole. The accompanying schedule of expenditures of federal awards is presented for purposes of additional analysis as required by OMB Circular A-133 audits of State and Local Governments and Non-Profit Organizations and is not a required part of the general purpose financial statements. Such information has been subjected to the auditing procedures applied in the audit of the general purpose financial statements and, in our opinion, is fairly stated, in all material respects, in relation to the general purpose financial statements taken as a whole.

This report is intended solely for the information of the Board, the Board's management and federal awarding agencies and pass-through entities, such as the State of Louisiana and Legislative Auditor's Office, and is not intended to be and should not be used by anyone other than these specified parties.

*Robert W. Nettles*

*Brund & Jervason LLP*

March 28, 2002

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**  
**New Orleans, Louisiana**

Schedule of Expenditures of Federal Awards

For the year ended December 31, 2001

<u>Federal Grantor/Program Title</u>	<u>CFDA Number</u>	<u>Expenditures</u>
United States Environmental Protection Agency – Special Purpose:		
Grant #2	66.606	\$ 1,050,387
Grant #3	66.606	2,238,643
Grant #4	66.606	3,960,444
Grant #5	66.606	<u>1,293,050</u>
 Total Federal Awards		 <u>\$ 8,542,524</u>

See accompanying notes to Schedule of Expenditures of Federal Awards.

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**  
**New Orleans, Louisiana**

Notes to Schedule of Expenditures of Federal Awards

December 31, 2001

**(1) General**

The accompanying Schedule of Expenditures of Federal Awards presents the activity of the federal awards of the Sewerage and Water Board of New Orleans (the Board). The Board's reporting entity is defined in note 1 to the general purpose financial statements for the year ended December 31, 2001. All federal awards received from federal agencies are included on the schedule.

**(2) Basis of Accounting**

The accompanying Schedule of Expenditures of Federal Awards is presented using the accrual basis of accounting, which is described in note 1 to the Board's general purpose financial statements for the year ended December 31, 2001.

**(3) Relationship to General Purpose Financial Statements**

Federal awards are included in contributed capital in the general purpose financial statements. Note 7 of the Notes to the Financial Statements of the Board shows additions to Federal and State Contributed Capital of \$41,418,791. The total federal awards of \$8,542,524 are included in these additions.

**SEWERAGE AND WATER BOARD OF NEW ORLEANS**  
**New Orleans, Louisiana**

Schedule of Findings and Questioned Costs

Year ended December 31, 2001

(1) Summary of Auditors' Results

- (a) The type of report issued on the general purpose financial statements: unqualified opinion
- (b) Reportable conditions in internal control were disclosed by the audit of the general purpose financial statements: none reported; Material weaknesses: no
- (c) Noncompliance which is material to the general purpose financial statements: no
- (d) Reportable conditions in internal control over major programs: none reported; Material weaknesses: no
- (e) The type of report issued on compliance for major programs: unqualified opinion
- (f) Any audit findings which are required to be reported under Section 510(a) of OMB Circular A-133: no
- (g) Major program:  
United States Environmental Protection Agency -  
Special Purpose (CFDA number 66.606)
- (h) Dollar threshold used to distinguish between Type A and Type B programs: \$300,000
- (i) Auditee qualified as a low-risk auditee under Section 530 of OMB Circular A-133: yes

(2) Findings Relating to the General Purpose Financial Statements Reported in Accordance with Government Auditing Standards: None

(3) Findings and Questioned Costs relating to Federal Awards: None



**Postlethwaite & Netterville**

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March 28, 2002

CONFIDENTIAL

Board of Directors  
Sewerage & Water Board of New Orleans  
625 St. Joseph Street  
New Orleans, Louisiana 70165

Dear Members of the Board:

We have audited the general purpose financial statements of the Sewerage & Water Board of New Orleans (the Board) for the year ended December 31, 2001, and have issued our report thereon dated March 28, 2002.

In planning and performing our audit of the financial statements of the Board, we considered internal control in order to determine our auditing procedures for the purpose of expressing our opinion on the general purpose financial statements. An audit does not include examining the effectiveness of internal control and does not provide assurance on internal control. We have not considered internal control since the date of our report.

During our audit we noted a certain matter involving internal control and/or other operational matters that are presented for your consideration. These comments and recommendations, all of which have been discussed with the appropriate members of management, are intended to improve internal control or result in other operating efficiencies and are listed in Appendix A to this report. Appendix B provides a status of prior year management letter comments. Appendix C provides management's response to current year comment.

Our audit procedures are designed primarily to enable us to form an opinion on the general purpose financial statements, and therefore may not bring to light all weaknesses in policies or procedures that may exist. We aim, however, to use our knowledge of the Board's organization gained during our work to make comments and suggestions that we hope will be useful to you.

We would be pleased to discuss these comments and recommendations with you at any time.

This report is intended solely for the information of the Board, the Board's management, and federal awarding agencies and pass-through entities, such as the State of Louisiana and the Legislative Auditor's office and is not intended to be, and should not be, used by anyone other than these specified parties.

Very truly yours,

*Postlethwaite & Netterville*

*Bruno & Tervalon LLP*

**CURRENT YEAR COMMENT**

**Debt Coverage**

The Board is required to meet certain debt covenants relating to its various bond issues in the Water and Sewer Departments. One such covenant requires that net revenues (net of certain expenses) meet or exceed 130% of the largest debt service requirement for each Department. Over the last five years, the ratio for the Sewer Department has declined significantly, from 379% in 1997 to 154% in 2001. For the Water Department, the ratio has declined from 364%% in 1997 to 315% in 2001. The net revenues available for debt services for the Sewer Department increased from \$9.4 million in 1997 to \$17.1 million in 2001; however, debt service increased from \$2.5 in 1997 to \$11.1 in 2001. In addition, net revenues available in the Water Department for debt service have declined from \$13.2 million in 1998 to \$5.8 million in 2001; this decline in net revenues available reduces the funds available for future bond issues.

We recommend that the Board assess its future net revenue projections on a regular basis to determine its adequacy for complying with required ratios and for providing sufficient funding for future capital projects.

**Prior Year Comments**

*The status of prior year comments is included in Appendix B.*

**STATUS OF PRIOR YEAR COMMENTS**

<u>Prior Year Recommendation</u>	<u>Management Response</u>	<u>Status</u>	<u>Comment Disposition</u>
<b>Financial Reporting Model</b>			
<p>As reported in prior management letters, the Government Accounting Standard's Board Statement No. 34 will significantly impact the financial Accounting and Reporting of the Sewerage &amp; Water Board. The Board's information systems are being updated to comply with the new requirements. The effective date of the requirements will be for the fiscal year ending December 31, 2002. We suggest that the Board begin a review of the accounting changes required by this process and begin plans for implementing the required changes. In addition, we recommend the Board review the status of its fixed asset inventory and related documents and records of donation, as such information will be necessary for implementation of this statement.</p>	Concur	Implemented	The Accounting Department along with the Computer Center has begun GASB 34 implementation procedures.
<b>Investments</b>			
<p>While we noted no adjustments to the amounts recorded in the Board's various investment accounts other than the adjustment for fair market value, we did note that the internal controls relating to investments could be improved by further segregating the responsibilities for this area. We recommend that the Board consider implementing further review and approval procedures.</p>	Concur	Implemented	Changes in personnel have occurred and reconciliation processes are occurring.

**MANAGEMENT'S RESPONSE TO CURRENT AND OPEN PRIOR YEAR COMMENT**

**Debt Coverage**

The Board is required to meet certain debt covenants relating to its various bond issues in the Water and Sewer Departments. One such covenant requires that net revenues (net of certain expenses) meet or exceed 130% of the largest debt service requirement for each Department. Over the last five years, the ratio for the Sewer Department has declined significantly, from 379% in 1997 to 154% in 2001. For the Water Department, the ratio has declined from 364%% in 1997 to 315% in 2001. The net revenues available for debt services for the Sewer Department increased from \$9.4 million in 1997 to \$17.1 million in 2001; however, debt service increased from \$2.5 in 1997 to \$11.1 in 2001. In addition, net revenues available in the Water Department for debt service have declined from \$13.2 million in 1998 to \$5.8 million in 2001; this decline in net revenues available reduces the funds available for future bond issues.

We recommend that the Board assess its future net revenue projections on a regular basis to determine its adequacy for complying with required ratios and for providing sufficient funding for future capital projects.

***Management's Response:***

The Board currently receives data regarding operating trends. Management will review updated schedules of bond coverage ratios and will project based on budgeted amounts the anticipated compliance ratios as of the end of the year. The Board will assess its future projections on a regular basis to determine its adequacy to comply with required ratios.

**Prior Year Comments**

***Management's Response:***

All prior year comments have been addressed.