

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM

FINANCIAL STATEMENTS

December 31, 2017 and 2016

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM

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INDEPENDENT AUDITORS' REPORT

Board of Trustees
Corpus Christi Firefighters' Retirement System
Corpus Christi, Texas

We have audited the accompanying financial statements of Corpus Christi Firefighters' Retirement System (the System), which comprise the statements of fiduciary net position as of December 31, 2017 and 2016, and the related statements of changes in fiduciary net position for the years then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

The System's management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

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. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the System's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the System's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial status of the Corpus Christi Firefighters' Retirement System as of December 31, 2017 and 2016, and the changes in its financial status for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and other required supplementary information on pages 3-4 and 23-24 be presented to supplement the basic financial statements. Such information, although not a required part of the basic financial statements, is required by the *Governmental Accounting Standards Board*, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

PJ Valdez, P. C.

April 19, 2018

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
MANAGEMENT'S DISCUSSION AND ANALYSIS

Our discussion and analysis of the Corpus Christi Firefighters' Retirement System (System) financial performance provides an overview of the System's financial activities for the years ended December 31, 2017 and 2016. Please read it in conjunction with the Plan's financial statements, which follow this discussion.

FINANCIAL HIGHLIGHTS

The System held \$149,107,054 in assets and had outstanding \$374,232 in total liabilities at the end of the year ending December 31, 2017. The net amount of \$148,732,822 is held in trust to provide for future benefit payments. The System held \$134,133,300 in assets and had outstanding \$231,669 in total liabilities at the end of the year ending December 31, 2016. The net amount of \$133,901,631 is held in trust to provide for future benefit payments.

From 2016 to 2017, the City's contributions to the System decreased \$347, or 0.01%. The City's contributions were \$6,562,646 and \$6,562,993 for 2017 and 2016, respectively. From 2016 to 2017, Firefighter's contributions decreased by \$218, or 0.01%, year over year. Firefighter's contributions were \$4,137,182 and \$4,137,400 for 2017 and 2016, respectively.

Net realized and unrealized gains of \$16,260,350 were recognized in 2017 while net realized and unrealized gains of \$5,203,094 were recognized in 2016 resulting in a net gain of \$11,057,256 year over year. The System earned \$2,826,830 and \$2,754,641 in income from interest and dividends in 2017 and 2016, respectively. Investment expenses increased by \$49,103, or 11.0%, from 2017 to 2016. Investment expenses decreased by \$28,704, or 5.91%, from 2016 to 2015.

From 2016 to 2017, benefits payments increased by \$30,685, or 0.22%, and refunds of contributions increased by \$93,764, or 81%. From 2015 to 2016, benefits payments increased by \$3,101,100, or 29%, and refunds of contributions decreased by \$136,526, or 54%.

From 2016 to 2017, administrative expenses increased by \$11,965, or 5%. Administrative expenses decreased by \$24,078, or 9%, from 2015 to 2016.

USING THE AUDITED FINANCIAL STATEMENTS

The financial statements reflect the activities of the System and are reported in the Statements of Fiduciary Net Position and the Statements of Changes in Fiduciary Net Position. These statements are presented on an accrual basis, reflect all trust activities as incurred, and are based on account balances of investments at year end.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
MANAGEMENT'S DISCUSSION AND ANALYSIS

FUNDING PROGRESS

The System contracted with Rudd and Wisdom, Inc. to conduct an actuarial valuation to determine the funding position of the System as of December 31, 2016. The actuarial valuation report indicated that the overall funding of the System remains sound and the current contribution rates are sufficient to keep the System actuarially sound. In preparing the valuation, the actuary uses a smoothing process over a rolling five-year period of investment data to remove year-to-year volatility in asset returns.

ASSET ALLOCATION

At December 31, 2017, the System's portfolio totaled \$148,379,925. The allocations were as follows: Mutual Funds 17.8% (\$26,426,253), Common Stocks 37.1% (\$55,012,780), U.S. Government Securities 21.4% (\$31,695,333), Mutual Funds - Real Estate 11.8% (\$17,529,349), Corporate & Foreign Bonds 11.0% (\$16,208,579), and cash & cash equivalents .09% (\$1,407,631). Cash & cash equivalents increased by \$275,455 in 2017. Mutual Funds and Mutual Fund - Real Estate increased \$4,928,886 and \$1,016,478, respectively. Corporate & Foreign Bonds and Common Stock increased \$1,262,754 and \$7,320,814 respectively. U.S. Government Securities increased by \$197,939.

CONTACTING THE SYSTEM'S FINANCIAL MANAGEMENT

This financial report is designed to provide the Retirement Board, our membership, taxpayers, investors, and creditors with a general overview of the System's finances and to demonstrate accountability for the money they receive. If anyone has any questions about this report or need additional financial information, they contact the Corpus Christi Firefighters' Retirement System, 711 N. Carancahua, Suite 724, Corpus Christi, Texas 78401-0544.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
STATEMENTS OF FIDUCIARY NET POSITION
December 31, 2017 and 2016

	2017	2016
<u>ASSETS</u>		
CURRENT ASSETS		
Cash and short-term investments (at fair value)	\$ 1,407,631	\$ 1,132,176
Investments (at fair value)	146,972,294	132,245,423
Accrued interest receivable	296,236	275,943
Other	3,370	3,108
	148,679,531	133,656,650
Contributions receivable:		
City	261,325	290,814
Firefighters	164,743	183,333
	426,068	474,147
Total current assets	149,105,599	134,130,797
Furniture and equipment, net	1,455	2,503
	149,107,054	134,133,300
<u>LIABILITIES</u>		
CURRENT LIABILITIES		
Benefits payable	198,151	109,176
Accounts payable and accrued expenses	176,081	122,493
Total current liabilities	374,232	231,669
NET FIDUCIARY POSITION ASSETS HELD IN TRUST FOR PENSION BENEFITS (a schedule of changes in the net pension liability is presented on page 23)	\$ 148,732,822	\$ 133,901,631

The accompanying notes are an integral part of these financial statements.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION
For The Years Ended December 31, 2017 and 2016

	2017	2016
<u>ADDITIONS TO NET ASSETS</u>		
Investment income:		
Net appreciation in fair value of investments	\$ 16,260,350	\$ 5,203,094
Interest	1,305,669	1,392,209
Dividends	1,521,161	1,362,432
	19,087,180	7,957,735
Less investment expenses	505,903	456,800
Net investment income	18,581,277	7,500,935
Contributions:		
City of Corpus Christi	6,562,646	6,562,993
Firefighters	4,137,182	4,137,400
Total contributions	10,699,828	10,700,393
Total additions	29,281,105	18,201,328
<u>DEDUCTIONS FROM NET ASSETS</u>		
Benefits paid	13,970,369	13,939,684
Administrative expenses	269,405	257,440
Refund of contributions	210,140	116,376
Total deductions	14,449,914	14,313,500
NET INCREASE IN PLAN ASSETS	14,831,191	3,887,828
NET ASSETS HELD IN TRUST FOR		
PENSION BENEFITS, beginning of year	133,901,631	130,013,803
NET FIDUCIARY POSITION HELD IN TRUST		
FOR PENSION BENEFITS, end of year	\$ 148,732,822	\$ 133,901,631

The accompanying notes are an integral part of these financial statements.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
 NOTES TO THE FINANCIAL STATEMENTS
 December 31, 2017 and 2016

NOTE 1 – PLAN DESCRIPTION

The following brief description of the Corpus Christi Firefighters' Retirement System (the System) is provided for general information purposes only. The System's pension plan (Plan) document and the most recent actuarial study should be referred to for more complete information. The provisions of the Plan are established by the Texas Local Firefighter's Retirement Act of the State of Texas (TLFFRA) and the Board of Trustees.

Plan Administration

The System is administered by a seven-member Board of Trustees (the Board) consisting of the mayor or the mayor's designated representative; the city's chief financial officer or a person designated by the chief financial officer; three active members of the retirement system elected by participating members; and two citizen members who are elected by participating members of the board.

General

The Plan is a single-employer defined benefit pension plan covering all firefighters employed by the City of Corpus Christi (City), Texas. The table below summarizes the membership of the System included in the December 31, 2016 actuarial valuation of the System, the most recent completely biennial actuarial valuation.

Retirees and beneficiaries currently receiving benefits	316
Terminated members entitled to benefits, but not yet receiving them	6
Active participants (vested and non-vested)	428
Total	750

Pension Benefits

The System provides service retirement, death, disability, and withdrawal benefits. Effective January 1, 2016, firefighters are eligible for service retirement when the member is at least 54 years old and has performed at least 20 years of service that is credited in the retirement system. Qualified employees are entitled to monthly pension benefits beginning at age 54 equal to a formula amount based on 52% of the employee's highest sixty-month average pay and \$150 for each of his years of service in excess of 20 years, if any, as described in the Plan document, or if greater, a formula amount based on the employee's total years of service, as described in the Plan document, subject to a five-year phase-in formula.

Deferred service retirement benefit, based on the employee's vested percentage of their service retirement benefit, is available to firefighters who complete 10 years of service if they do not withdraw their employee contributions prior to attaining age 54. If a firefighter who has completed 10 years of service so elects, the firefighter can begin to receive an actuarially-reduced service retirement benefit before reaching age 54.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
NOTES TO THE FINANCIAL STATEMENTS
December 31, 2017 and 2016

NOTE 1 – PLAN DESCRIPTION (continued)

If a firefighter is separated from the service of the Corpus Christi Fire Department before becoming vested in-service retirement benefits, the firefighter will receive a refund of accumulated contributions to the System.

There is no provision for automatic post retirement benefit increases. The System has the authority to provide, and has periodically in the past provided, ad hoc post retirement benefit increases. The benefit provisions of the Plan are authorized by the TLFFRA. The TLFFRA provides the authority and procedure to amend benefit provisions.

Eligibility for Participation in Retroactive Deferred Retirement Option Plan (“RETRO DROP”)

A firefighter meeting the conditions described below can elect an optional form of service retirement or disability benefit at termination of employment as an employee called a Retroactive Deferred Retirement Option Plan (RETRO DROP). Under this option, an eligible firefighter who qualifies as a service retiree or a disability retiree can elect a RETRO DROP benefit calculation date that is no earlier than a date which is (a) 36 months prior to the first day of the month following the date when his termination of employment as an employee occurs, and (b) the first day of the month after he attains age 54 and completes 20 years of service. Additionally, under this option, an eligible Participant who qualifies as a service retiree or a disability retiree can elect a RETRO DROP benefit calculation date that is no earlier than a date which is (a) 48 months prior to the first day of the month following the date when his termination of employment as an employee occurs, and (b) the first day of the month after he attains age 56 and completes 22 years of service. This option is available to a firefighter who becomes eligible to receive disability benefits if he satisfies the age and service requirements of the Section. If a firefighter dies while an active employee of the City and while eligible to elect a RETRO DROP, his surviving spouse will be eligible to elect a RETRO DROP with regard to the death benefit available to such surviving spouse. Upon retirement, the member will receive, in addition to his monthly retirement benefit, a lump sum equal to the sum of the amount of monthly contributions the member has made to the system after the RETRO DROP benefit calculation date plus the total of the monthly retirement benefits the member would have received between the RETRO DROP benefit calculation date and the date he retired under the plan. There are no account balances. The lump sum is calculated at the time of retirement and distributed as soon as administratively possible.

Termination

Although the System has not expressed any intent to do so, in the event the System is terminated or upon complete discontinuance of contributions, the members and their beneficiaries shall be entitled to the benefits accrued to the date of such termination of discontinuance, to the extent then funded.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
NOTES TO THE FINANCIAL STATEMENTS
December 31, 2017 and 2016

NOTE 1 – PLAN DESCRIPTION (continued)

Funding Policy

The contribution provisions of this plan are authorized by TLFFRA. TLFFRA provides the authority and procedure to change the amount of contributions determined as a percentage of pay by each firefighter and a percentage of payroll by the city.

Effective January 1, 2016, the funding policy of the System requires contributions equal to 13.10% of pay by the firefighters, the rate elected by the firefighters as authorized by TLFFRA. The City currently contributes 20.78% of payroll according to a city resolution. The actuarial valuation includes the assumption that the city contribution rate will be 20.78% over the UAAL amortization period. The costs of administering the Plan are paid from the System.

The funding policy also depends upon the total return of the System's assets, which varies from year to year. This measurement of the investment performance is net of investment expenses and reflects the estimated effect of the timing of the contributions received and the benefits paid during the year.

While the contribution requirements are not actuarially determined, state law requires that each change in plan benefits adopted by the System must first be approved by an eligible actuary, certifying that the contribution commitment by the firefighters and the assumed city contribution rate together provide an adequate contribution arrangement. Using the entry age actuarial cost method, the Plan's normal cost contribution rate is determined as a percentage of payroll. The excess of the total contribution rate over the normal cost contribution rate is used to amortize the Plan's UAAL is actuarially determined using an open, level percentage of payroll method.

NOTE 2 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The basis financial statements of the System have been prepared in conformity with accounting principles generally accepted in the United States of America, as applied to government units hereinafter referred to as generally accepted accounting principles (GAAP). The Governmental Accounting Standards Board (GASB) is the accepted standard-setting body for establishing governmental accounting and financial reporting principles. The more significant of the Plan's accounting policies are described below.

Reporting Entity

The System is a component unit of the City of Corpus Christi, Texas because of the significance of its operational and financial relationship with the City. For financial reporting purposes the Plan is reported as a "*blended*" component of the City because it is fiscally dependent on the City. Blending is a financial reporting process that results in the reporting of the component unit's operations as part of the primary government's operations.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
NOTES TO THE FINANCIAL STATEMENTS
December 31, 2017 and 2016

NOTE 2 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

Death and Disability Benefits

Effective January 1, 2016, if an active firefighter becomes totally disabled with less than 20 years of service, the disabled firefighter is entitled to receive a monthly disability benefit for 30 months equal to the service retirement benefit that would be payable to a firefighter who retired with exactly 20 years of service. After 30 months, the amount of the disability benefit is subject to being decreased based on the disabled firefighter's estimated annual residual earnings capacity and percentage of disability.

If an active firefighter dies with less than 20 years of service, a death benefit is payable to eligible beneficiaries equal to the service retirement benefit that would be payable to the firefighter if he or she retired with exactly 20 years of service.

If an active firefighter dies or becomes totally disabled with 20 or more years of service, a benefit equal to the amount the firefighter would have received had he retired on the date of death or disability is paid to the firefighter or their beneficiary. Death benefits can also be paid on behalf of retired or disabled firefighters.

Firefighters who are eligible for service or disability retirement and certain surviving spouses of deceased firefighters may be eligible for a retroactive deferred retirement option.

Basis of Accounting

The System's financial statements are prepared using the accrual basis of accounting. Firefighter and City contributions are recognized as revenues in the period in which salaries are earned. Benefits and refunds are recognized when due and payable in accordance with terms of the Plan.

Valuation of Investments

Investments are reported at estimated fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Short-term investments are reported at cost, which approximates fair value. Securities traded on a national or international exchange are valued at the last reported sales price at current exchange rates.

Investment Income

Investment income is recognized as earned. Gains and losses on sales of investment securities are recognized on the trade date. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation includes the System's gains and losses on investments bought and sold as well as held during the year.

Payment of Benefits

Benefit payments to participants are recorded upon distribution.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
NOTES TO THE FINANCIAL STATEMENTS
December 31, 2017 and 2016

NOTE 2 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

Expenses

The System's expenses are paid as provided by the System's document. Certain expenses incurred in connection with the general administration of the System that are paid by the System are recorded as deductions in the accompanying statement of changes in fiduciary net position. In addition, certain investment related expenses are included in net appreciation in fair value of investments presented in the accompanying statement of changes in fiduciary net position.

Furniture and Equipment

Furniture and equipment are valued at cost. Maintenance and repair costs are charged to expense as incurred. Gains and losses on disposition of property and equipment are reflected in income. Depreciation is computed on the straight-line method for financial reporting purposes, based on the estimated useful lives of the assets which are 5 years.

Estimates

The preparation of financial statements in conformity with generally accepted accounting principles in the United States requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from those estimates.

Reclassifications

Certain amounts in the prior year, none affecting net income, have been reclassified in order to be consistent with the current year presentation.

Risk and Uncertainties

Contributions to the Plan and the actuarial information included in the required supplementary information (RSI) are reported based on certain assumptions pertaining to the interest rates, inflation rates and employee compensation and demographics. Due to the changing nature of these assumptions, it is at least reasonably possible that changes in these assumptions may occur in the near term and, due to the uncertainties inherent in setting assumptions, that the effect of such changes could be material to the financial statements.

Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment the greater the sensitivity of its fair value to changes in market interest rates. As a means of limiting its exposure to interest rate risk, the System diversifies its investments by security type and institution, and limits holdings in any one type of investment with any one issuer with various durations of maturities.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
NOTES TO THE FINANCIAL STATEMENTS
December 31, 2017 and 2016

NOTE 2 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

Credit Risk

Credit risk is the risk that a security or a portfolio will lose some or all of its value due to a real or perceived change in the ability of the issuer to repay its debt. This risk is generally measured by the assignment of a rating by a nationally recognized statistical rating organization. The System's Board of Trustees utilizes portfolio diversification in order to control this risk.

Custodial Credit Risk

Custodial credit risk for investments is the risk that, in the event of the failure of the counterparty, the System would not be able to recover the value of its investments or collateral securities that are in the possession of an outside party.

The System's \$71 million and \$63 million investment, for 2017 and 2016, respectively, in common and preferred stocks, and corporate bonds and notes, are held by the investment's counterparty, not in the name of the System. The System's investment policy does not address limits regarding the securities held by counterparties.

As of December 31, 2017, and 2016, all investments are registered in the name of the Corpus Christi Firefighters' Retirement System or in the name of the Plan's custodian, established through a master trust custodial agreement.

Recent Accounting Pronouncements

In March 2016, GASB issued Statement No. 82, *Pension Issues, an Amendment to Statement No. 67, Statement No. 68, and Statement No. 73* and addresses issues regarding (1) the presentation of payroll-related measures in required supplementary information, (2) the selection of assumptions and treatment of deviations from guidance in actuarial standards for financial reporting purposes, and (3) the classification of payments made by employers to satisfy plan member contribution requirements. This Statement is effective for the System's year ending December 31, 2018.

In January 2017, GASB issued Statement No. 84, *Fiduciary Activities*, to improve guidance regarding the identification of fiduciary activities accounting and financial reporting purposes. The focus is on (1) whether a government is controlling the assets of the fiduciary activity and (2) the beneficiaries with whom a fiduciary relationship exists. This Statement also provides for recognition of a liability to the beneficiaries in a fiduciary fund when an event has occurred that compels the government to disburse fiduciary resources. This Statement is effective for the System's year ending December 31, 2019 with early adoption allowed.

In March 2017, GASB issued Statement No. 85, *Omnibus 2017*, to address practice issues identified during implementation and application of certain GASB statements such as blending component units, goodwill, and fair value measurements and application. This Statement is effective for the System's year ending December 31, 2018 with early adoption allowed.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
 NOTES TO THE FINANCIAL STATEMENTS
 December 31, 2017 and 2016

NOTE 3 – CONTRIBUTION REQUIREMENTS AND CONTRIBUTIONS MADE

For the plan in effect on December 31, 2017 and 2016, the funding policy of the Corpus Christi Firefighters' Retirement System required contributions equal to 13.10% (for the Plan effective January 1, 2016) and 12.20% of each bi-weekly payroll period paid by the firefighters, respectively. The funding policy required contributions from the City equal to 20.78% for the years ending December 31, 2017 and 2016. While the contribution requirements are not actuarially determined, state law requires that each plan of benefits adopted by the System be approved by an eligible actuary.

The System's actuary certifies that the contribution commitment by the firefighters and the City provides an adequate financing arrangement. Using the entry age actuarial cost method, the Plan's normal cost is determined as a percentage of payroll. The excess of the total contribution rate over the normal cost rate is used to amortize the Plan's unfunded actuarial accrued liability, and the number of years needed to amortize the plan's unfunded actuarial accrued liability is determined using a level percentage of payroll method.

For the Plan in effect on January 1, 2016, the normal cost is 15.91% of payroll and the amortization period is approximately 23.1 years based on a December 31, 2016 valuation date. For the 2017 and 2016 calendar years, total contributions of \$10,699,828 and \$10,700,393, respectively, were required and paid into the system.

NOTE 4 – FURNITURE AND EQUIPMENT

Furniture and equipment consist of the following as of December 31, 2017 and 2016:

	2017	2016
Office equipment	\$ 15,085	\$ 15,085
Furniture and fixtures	11,404	11,404
Less: Accumulated depreciation	(25,034)	(23,986)
Totals	\$ 1,455	\$ 2,503

Depreciation expense totaled \$1,048 in 2017 and 2016.

NOTE 5 – DEPOSITS WITH FINANCIAL INSTITUTIONS AND INVESTMENTS

Effective September 1997, the Board of Trustees established that the System shall keep a sufficient amount of cash on hand to make payments as they become due under the System.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
 NOTES TO THE FINANCIAL STATEMENTS
 December 31, 2017 and 2016

NOTE 5 – DEPOSITS WITH FINANCIAL INSTITUTIONS AND INVESTMENTS (continued)

If the Board determines that the cash fund of the System contains amounts in excess of the amount needed to make necessary payments as they become due, the Board of Trustees may invest any portion of the excess.

In making investments for the retirement system, the Board of Trustees shall exercise proper judgment and care, taking into account the circumstances prevailing at the time of the investment. The Board of Trustees may not invest in the stock or bonds of one corporation more than five percent of the book value of the assets of a fund. In addition, the System may not own more than five percent of the voting stock of one corporation.

The System's deposits are carried at fair value. The cash and short-term investment balances of \$1,407,631 and \$1,132,176 at December 31, 2017 and 2016, respectively, are held in cash equivalent securities or investments.

The following table presents the fair values of investments at December 31, 2017 and 2016. Investments that represent 5% or more of the System's net assets are separately identified.

	<u>2017</u>	<u>2016</u>
Common and Preferred Stocks	\$ 55,012,780	\$ 47,691,966
U.S. Government Securities	31,695,333	31,497,394
Mutual Funds	26,426,253	21,497,367
Mutual Funds - Real Estate	17,529,349	16,512,871
Corporate (domestic and foreign)		
Bonds and Notes	<u>16,308,579</u>	<u>15,045,825</u>
Totals	<u>\$146,972,294</u>	<u>\$132,245,423</u>

Fair values were determined based on quoted market prices. No investments other than those shown above were made during the year. Deposits held in money market accounts were classified as cash and short-term investments as of December 31, 2017 and 2016.

For the years ended December 31, 2017 and 2016, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was 14.07% and 5.85%, respectively. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

The investment policy of the plan contains limitations on the amount that can be invested in any one issuer as well as maximum portfolio allocation percentages. There were no individual investments that represent 5% or more of the fiduciary net position at December 31, 2017 and 2016.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
NOTES TO THE FINANCIAL STATEMENTS
December 31, 2017 and 2016

NOTE 6 – OPERATING LEASES

The System leases its office facilities under an operating lease that requires monthly payments that will increase gradually over the term of the lease. Total rent of \$11,310 was paid for the years ending December 31, 2017 and 2016.

The total amount of lease payments required under the operating lease for the years ending after December 31, 2017 are as follows:

<u>December 31,</u>	<u>Amount</u>
2018	\$ 10,652
2019	10,988
2020	11,100
2021	11,437
2022	<u>2,859</u>
	<u>\$ 47,036</u>

NOTE 7 – FAIR VALUE MEASUREMENTS

The fair value measurement in accordance with Accounting Standards Codification 820-10, establishes a framework for measuring fair value.

Level 1 Fair Value Measurements

These are inputs representing unadjusted quoted prices in active markets for identical assets or liabilities that the reporting entity has the ability at the measurement date.

Level 2 Fair Value Measurements

These are inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly or indirectly. These include quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liability (for example interest rates, volatilities, credit risks and default rates) or inputs that are derived principally from or corroborated by observable market data by correlation or other means.

Level 3 Fair Value Measurements

These are significant unobservable inputs that reflect an entity's own assumptions that market participants would use in pricing the assets or liabilities.

The asset or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
NOTES TO THE FINANCIAL STATEMENTS
December 31, 2017 and 2016

NOTE 7 – FAIR VALUE MEASUREMENTS (continued)

Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs. There have been no changes in the methodologies used at December 31, 2017 and 2016.

The System's investments are reported at fair value in the accompanying statement of financial position. The methods used to measure fair value may produce an amount that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although the System believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

The fair value measurements and levels within the fair value hierarchy of those measurements for the assets and liabilities reported at fair value on a recurring basis at December 31, 2017 and 2016 are as follows:

Fair Value Measurements at Reporting Date Using:

	Fair Value	Quoted Prices In Active Markets for Identical Assets/ Liabilities (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
<u>December 31, 2017</u>				
Common and Preferred Stocks	\$ 55,012,780	\$ --	\$ 55,012,780	\$ --
U.S. Government Securities	31,695,333	--	31,695,333	--
Mutual Funds	26,426,253	--	26,426,253	--
Mutual Funds - Real Estate	17,529,349	--	17,529,349	--
Corporate (domestic and foreign)				
Bonds and Notes	<u>16,308,579</u>	--	<u>16,308,579</u>	--
Total	<u>\$146,972,294</u>	<u>\$ --</u>	<u>\$146,972,294</u>	<u>\$ --</u>
<u>December 31, 2016</u>				
Common and Preferred Stocks	\$ 47,691,966	\$ --	\$ 47,691,966	\$ --
U.S. Government Securities	31,497,394	--	31,497,394	--
Mutual Funds	21,497,367	--	21,497,367	--
Mutual Funds - Real Estate	16,512,871	--	16,512,871	--
Corporate (domestic and foreign)				
Bonds and Notes	<u>15,045,825</u>	--	<u>15,045,825</u>	--
Total	<u>\$132,245,423</u>	<u>\$ --</u>	<u>\$132,245,423</u>	<u>\$ --</u>

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
NOTES TO THE FINANCIAL STATEMENTS
December 31, 2017 and 2016

NOTE 7 – FAIR VALUE MEASUREMENTS (continued)

To estimate their fair value, the System uses prices and other relevant information generated by market transactions involving identical or comparable assets or liabilities, in other words the market approach. The System did not have any significant transfers between levels 1 and 2 for the years ended December 31, 2017 and 2016.

NOTE 8 – NET PENSION LIABILITY OF THE SYSTEM

The System’s net pension liability was measured as of December 31, 2017, and the total pension liability used to calculate the net pension liability was determined by the roll forward procedure of the total pension liability in the actuarial valuation as of December 31, 2016 and rolled forward to December 31, 2017.

The components of the net pension liability of the System at December 31, 2017, are as follows:

Total pension liability	\$ 235,067,829
Fiduciary net position	<u>148,732,822</u>
System’s net pension liability	<u>\$ 86,335,007</u>
Plan fiduciary net position as a percentage of total pension liability	63.3%

Actuarial Assumptions - the total pension liability was determined by an actuarial valuation as of December 31, 2016, using the following actuarial assumptions, applied to all prior periods included in the measurement:

Inflation:	3.5%
Salary increases:	3.5% plus promotion, step, and longevity increases that average 1.82% per year over 30-year career.
Investment rate of return:	7.75%, net of investment-related expenses

NOTE 9 – SUBSEQUENT EVENTS

Management of the System has evaluated subsequent events for disclosure through April 19, 2018, the date the financial statements were available to be issued and concludes that there are no events or transactions occurring during this period that require recognition or disclosures in the financial statements.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
NOTES TO THE FINANCIAL STATEMENTS
December 31, 2017 and 2016

NOTE 10 – INVESTMENT ASSET ALLOCATION

The System's investments are recorded at fair value as of December 31, 2017 and 2016. The table below reflects the composition of these investments.

<u>December 31, 2017</u>	<u>Fair Value</u>	<u>% of Portfolio</u>	<u>Investment Policy Asset Allocation</u>
Equities:			
LSV Asset Management	\$ 19,677,925	13.4%	10.00 - 15.00%
Templeton Intl.	17,739,083	12.1	10.00 - 15.00
Clearbridge	9,899,298	6.7	10.00 - 15.00
Polen Capital Mgmt.	9,745,586	6.6	2.50 - 7.50
JP Morgan SMG	8,687,170	5.9	10.00 - 15.00
Fuller & Thaler	7,857,809	5.4	2.50 - 7.50
Eaton Vance Emerging Mkt	<u>7,832,162</u>	5.3	3.00 - 10.00
Equities Total	<u>81,439,033</u>		
Fixed Income:			
Garcia Hamilton	<u>48,003,912</u>	32.7	31.00 - 41.00%
Fixed Income Total	48,003,912		
Alternative Investments			
JPM Strategic RE	<u>17,529,349</u>	11.9	5.00 - 15.00%
Alternative Investment Total	<u>17,529,349</u>		
Total Portfolio	<u>\$146,972,294</u>	100%	
<u>December 31, 2016</u>	<u>Fair Value</u>	<u>% of Portfolio</u>	<u>Investment Policy Asset Allocation</u>
Equities:			
LSV Asset Management	18,560,112	14.0%	10.00 - 15.00%
Montag & Caldwell	15,652,524	11.8	10.00 - 15.00
Templeton Intl.	14,431,947	11.0	2.50 - 7.50
Russell 2000 Val	7,342,180	5.6	2.50 - 7.50
JP Morgan	7,065,420	5.3	10.00 - 15.00
Eaton Vance Emerging Mkt	<u>6,137,150</u>	4.6	3.00 - 10.00
Equities Total	<u>69,189,333</u>		
Fixed Income:			
Garcia Hamilton	<u>46,543,219</u>	35.2	31.00 - 41.00%
Fixed Income Total	46,543,219		
Alternative Investments			
JPM Strategic RE	<u>16,512,871</u>	12.5	5.00 - 15.00%
Alternative Investment Total	<u>16,512,871</u>		
Total Portfolio	<u>\$132,245,423</u>	100%	

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
NOTES TO THE FINANCIAL STATEMENTS
December 31, 2017 and 2016

NOTE 10 – INVESTMENT ASSET ALLOCATION (continued)

Because of the complexity of the portfolio, the System’s board of trustees relies on its consultant to provide the necessary guidance to accomplish the System’s objectives. The Board also understands that return objectives can be achieved while assuming “market” volatility. The Board is willing to forgo potential return in strong markets in return for protection against a severe decline during weak periods.

Concentration of credit risk. As noted in the above schedule, none of the asset classes exceed their maximum percentage of asset allocation. The system is well diversified; with no individual equity investment manager holding in excess of 10% its portfolio in any single corporation and any individual fixed income manager holding more than 5% of its portfolio in any single issuer, as outlined in the Investment Policy Statement. With the exception of the alternative investments, the portfolio can be liquidated within one to two days if so desired. Alternative investments may have an extended liquidation period.

Interest rate risk. Only the fixed income securities of the Plan are subject to direct interest rate risk due to the possibility that prevailing interest rates could change before the securities reach maturity. Securities that are subject to direct interest rate risk as of December 31, 2017, amount to \$48,003,912 and have a weighted average duration of .97 years. Securities that are subject to interest rate risk as of December 31, 2016, amount to \$46,543,219 and have a weighted average duration of 1.27 years. Durations is defined as the change in the value of a fixed income security that will result from a 1% change in interest rates.

Duration is stated in years. For example, 5-year duration means the bond will decrease in value by 5% if interest rates rise 1% and increase in value by 5% if interest rates fall 1%. Securities that are subject to direct interest rate risk are shown in the following table for the years ending December 31, 2017 and 2016. The Investment Policy Statement limits the structure of the investment manager’s portfolio’s duration to +/- 25% of the appropriate benchmark duration.

December 31, 2017

<u>Investment Type</u>	<u>Fair Value</u>	<u>Percentage of Total</u>	<u>Duration</u>
Corporate bonds	\$16,308,590	33.97%	0.08
Treasury	24,644,439	51.34	4.13
Mortgage-backed securities	<u>7,050,883</u>	<u>14.69</u>	<u>0.62</u>
Total interest rate sensitive bonds	<u>\$48,003,912</u>	100.00%	<u>0.97</u>

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
NOTES TO THE FINANCIAL STATEMENTS
December 31, 2017 and 2016

NOTE 10 – INVESTMENT ASSET ALLOCATION (continued)

December 31, 2016

<u>Investment Type</u>	<u>Fair Value</u>	<u>Percentage of Total</u>	<u>Duration</u>
Corporate Bonds	\$15,045,828	32.33%	0.66
Treasury	19,503,886	41.90	5.10
Mortgage-backed securities	<u>11,993,505</u>	<u>25.77</u>	<u>0.57</u>
Total interest rate sensitive bonds	<u>\$46,543,219</u>	100.00%	<u>1.27</u>

Credit risk. Using Standard and Poor's rating system for fixed income securities as of December 31, 2017, the System's bonds were rated as noted below. The Investment Policy Statement requires corporate fixed income securities to be at least investment grade at the time of purchase, with additional actions required if any security is downgraded below investment grade after purchase.

December 31, 2017

<u>S&P Rating</u>	<u>Fair Value</u>	<u>Percentage of Total</u>
AA	\$34,097,406	71.03%
A	11,194,923	23.32
BBB	<u>2,711,583</u>	<u>5.65</u>
Total Credit Sensitive bonds	<u>\$48,003,912</u>	100.00%

December 31, 2016

<u>S&P Rating</u>	<u>Fair Value</u>	<u>Percentage of Total</u>
AA	\$33,619,841	72.23%
A	6,935,904	14.90
BBB	<u>5,987,474</u>	<u>12.87</u>
Total Credit Sensitive bonds	<u>\$46,543,219</u>	100.00%

Foreign currency risk. Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment or a deposit. As of December 31, 2017 and 2016, the System did not have direct exposure to foreign currency risk through its investments. The Investment Policy Statement is silent on the subject of foreign currency risk.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
 NOTES TO THE FINANCIAL STATEMENTS
 December 31, 2017 and 2016

NOTE 11 – GASB 67 REQUIRED INFORMATION

Mortality rates were based on the RP-2000 Combined Healthy Mortality Tables for males and for females projected to 2024 by Scale AA.

The long-term expected rate of return on pension plan investments for the December 31, 2016 actuarial valuation was determined using a building-block method in which expected future net real rates of return (expected returns, net of pension plan investment expense, and inflation) are developed for each major asset class. These components are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage (currently resulting in 4.3%) and by adding expected inflation (3.5%). In addition, the final 7.75% assumption was selected by rounding down. The target allocation and expected arithmetic net real rates of return for each major asset class are summarized as follows:

Asset Class	Target Allocation	Long-Term Expected Net Real Rate of Return
Equities		
Large cap domestic	25.0%	5.84%
Small/mid cap domestic	10.0	6.00
International developed	12.5	6.12
Emerging markets	6.0	7.62
Real estate	10.0	3.90
Fixed income	36.5	1.72
Cash	<u>0.0</u>	0.40
Total	100.0%	
Weighted Average		4.30%

The discount rate used to measure the total pension liability was 7.75%. No projection of cash flows was used to determine the discount rate because the December 31, 2016 actuarial valuation showed that expected contributions would pay the normal cost and amortize the unfunded actuarial accrued liability (UAAL) in 23 years. Because of the 23-year amortization period with the lower value of assets, the pension plan's fiduciary net position is expected to be available to make all projected future benefit payments of current active and inactive members. Therefore, the long-term expected rate of return on pension plan investments of 7.75% was applied to all periods of projected benefit payments as the discount rate to determine the total pension liability.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
 NOTES TO THE FINANCIAL STATEMENTS
 December 31, 2017 and 2016

NOTE 11 – GASB 67 REQUIRED INFORMATION (continued)

The following presents the net pension liability of the System calculated using the discount rate of 7.75%, as well as what the Plan's net pension liability would be if it were calculated using a discount rate that is 1-percentage point lower (6.75%) or 1-percentage-point higher (8.75%) than the current rate:

	1% Decrease <u>(6.75%)</u>	Current Discount Rate <u>(7.75%)</u>	1% Increase <u>(8.75%)</u>
City's net pension liability	<u>\$ 111,209,746</u>	<u>\$ 86,335,007</u>	<u>\$ 65,115,424</u>

REQUIRED SUPPLEMENTARY SCHEDULES

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
SCHEDULE OF REQUIRED SUPPLEMENTARY INFORMATION
SCHEDULE OF CHANGES IN THE SYSTEM'S NET PENSION LIABILITY AND RELATED RATIOS
Last Ten Fiscal Year*

	2014	2015	2016	2017
Total pension liability				
Service cost	\$ 4,144,217	\$ 4,318,568	\$ 4,480,514	\$ 4,693,797
Interest	15,650,548	16,375,781	17,030,100	17,417,403
Changes of benefit terms	-	2,725,939	-	-
Differences between expected and actual experience	-	-	(2,017,698)	-
Assumption changes	313,566	-	3,581,876	-
Benefit payments, including refunds of firefighter contributions	(11,612,717)	(11,091,486)	(14,056,060)	(14,180,509)
Net change in total pension liability	<u>8,495,614</u>	<u>12,328,802</u>	<u>9,018,732</u>	<u>7,930,691</u>
Total pension liability - beginning	<u>197,293,990</u> ¹	<u>205,789,604</u>	<u>218,118,406</u>	<u>227,137,138</u>
Total pension liability - ending (a)	<u>\$ 205,789,604</u>	<u>\$ 218,118,406</u> ²	<u>\$ 227,137,138</u>	<u>\$ 235,067,829</u> ³
Plan fiduciary net position				
Contributions - City	\$ 6,007,048	\$ 6,361,276	\$ 6,562,993	\$ 6,562,646
Contributions - Firefighters	3,526,756	3,896,613	4,137,400	4,137,182
Net investment income	6,949,478	312,710	7,500,935	18,581,277
Benefit payments, including refunds of firefighter contributions	(11,612,717)	(11,091,486)	(14,056,060)	(14,180,509)
Administrative expense	(215,379)	(279,729)	(257,440)	(269,405)
Other	-	-	-	-
Net change in plan fiduciary net position	<u>4,655,186</u>	<u>(800,616)</u>	<u>3,887,828</u>	<u>14,831,191</u>
Plan fiduciary net position - beginning	<u>126,159,233</u>	<u>130,814,419</u>	<u>130,013,803</u>	<u>133,901,631</u>
Plan fiduciary net position - ending (b)	<u>\$ 130,814,419</u>	<u>\$ 130,013,803</u>	<u>\$ 133,901,631</u>	<u>\$ 148,732,822</u>
City's net pension liability - ending (a) - (b)	<u>\$ 74,975,185</u>	<u>\$ 88,104,603</u>	<u>\$ 93,235,507</u>	<u>\$ 86,335,007</u>
Plan fiduciary net position as a percentage of the total pension liability	63.6%	59.6%	59.0%	63.3%
Annual covered payroll	\$ 28,907,834	\$ 30,612,493	\$ 31,583,219	\$ 31,581,550
City's net pension liability as a percentage of covered-employee payroll	259.4%	287.8%	295.2%	273.4%

* Until a full 10-year trend is compiled, only available information is shown. Amounts recognized in the recent fiscal year represent changes between the current and prior measurement dates.

¹ Determined from the ending total pension liability as of December 31, 2014 but based on the actuarial assumptions for the December 31, 2012 actuarial valuation, using the roll forward procedure allowed for GASB 67.

² Determined from the beginning of year total pension liability based on a special study based on the December 31, 2014 actuarial valuation, using the roll forward procedure allowed for GASB 67.

³ Determined from the beginning of year total pension liability using the roll forward procedure allowed for GASB 67.

CORPUS CHRISTI FIREFIGHTERS' RETIREMENT SYSTEM
 SCHEDULE OF REQUIRED SUPPLEMENTARY INFORMATION
 SCHEDULE OF INVESTMENT RETURNS**
 Last Ten Fiscal Year*

Fiscal Year Ending	Annual Money-Weighted Net Real Rate of Return
December 31, 2013	17.65%
December 31, 2014	5.61%
December 31, 2015	0.24%
December 31, 2016	5.85%
December 31, 2017	14.07%

* Until a full ten-year trend is compiled, only available information is shown. Fiscal year refers to the plan year

** The money-weighted rate of return expresses investment performance, net of investment expense, reflecting the estimated effect of the contributions received and the benefits paid during the year.