File No: 190236

Petitions and Communications received from February 15, 2019, through February 25, 2019, for reference by the President to Committee considering related matters, or to be ordered filed by the Clerk on March 5, 2019.

Personal information that is provided in communications to the Board of Supervisors is subject to disclosure under the California Public Records Act and the San Francisco Sunshine Ordinance. Personal information will not be redacted.

From the City Attorney's Office, submitting a letter from Mayor London Breed and City Attorney Dennis Herrera to the US Department of Justice, regarding The Utility Reform Network's request to appoint an official ratepayers committee. Copy: Each Supervisor. (1)

From the Controller's Office, pursuant to California State Government Code, Section 53646, submitting the Pooled Investment Report for January 2019. Copy: Each Supervisor. (2)

From the Police Commission, submitting notice of approval of the proposed SFPD budget for Fiscal Year 2019/2020. Copy: Each Supervisor. (3)

From the Public Utilities Commission, pursuant to Administrative, Code Chapter 6, Section 6.60(b), submitting a Declaration of Emergency - 2019 February Transmission Line Incident. Copy: Each Supervisor. (4)

From the Public Utilities Commission, pursuant to Ordinance No. 223-15, submitting the Fiscal Year 2017-2018 Report on the CleanPowerSF Program. Copy: Each Supervisor. (5)

From the California Fish and Game Commission, pursuant to provisions of Section 2074.2, of the Fish and Game Code, submitting notice of findings regarding the petition to list Upper Klamath-Trinity River Spring Chinook Salmon as endangered under the California Endangered Species Act. Copy: Each Supervisor. (6)

From the California Department of Food and Agriculture, submitting a notice for San Francisco County for treatment for the Asian Citrus Psyllid. Copy: Each Supervisor. (7)

From Barbara and Dan Heffernan, regarding CEQA Appeal of 2831-2833 Pierce Street. File No. 181247. Copy: Each Supervisor. (8)

From concerned citizens, regarding the Treasure Island Marina. 4 Letters. File No. 181225. Copy: Each Supervisor. (9)

From Jon W. Kimmins, Chief Financial Officer of Gymboree Group, Inc., submitting notice of terminations of employment at Gymboree Corporate Headquarters. Copy: Each Supervisor. (10)

From Michael Denny, regarding waiving of word count and time of adoption rules used for Proposition A. Copy: Each Supervisor. (11)

From Jamey Frank, regarding tolls for driving downtown. Copy: Each Supervisor. (12)

From Susan Vaughan, regarding Uber/Lyft in a public bus stop. Copy: Each Supervisor. (13)

From Muriel Angle, regarding protecting city houses. File No. 181216. Copy: Each Supervisor. (14)

From Jordan Davis, regarding reappointment of Cindy Elias to the Police Commission. File No. 190197. Copy: Each Supervisor. (15)

From Terry Chong, regarding replacement for Public Defender, Jeff Adachi. Copy: Each Supervisor. (16)

From Chelsea Hernandez, regarding removing Sharp Park Golf Course from the Significant Natural Resource Area Plan. Copy: Each Supervisor. (17)

From Clean.Safe.365, regarding Mayor Breed's plan for $185M of discretionary funds. 11 signatures. File No. 181185. Copy: Each Supervisor. (18)

From Allen Jones, regarding the Human Rights Commission. Copy: Each Supervisor. (19)

From David Romano, regarding Outside Lands Festival permit renewal. File No. 190117. Copy: Each Supervisor. (20)

From:	Board of Supervisors, (BOS)
To:	BOS-Supervisors
Subject:	FW: Letter from Mayor London Breed and City Attorney Dennis Herrera
Date:	Tuesday, February 26, 2019 9:38:00 AM
Attachments:	02.22.19 SF Ltr Supporting Ratepayer Cttee.pdf

From: Feitelberg, Brittany (CAT) <Brittany.Feitelberg@sfcityatty.org>
Sent: Friday, February 22, 2019 4:36 PM
To: 'timothy.s.laffredi@usdoj.gov' <timothy.s.laffredi@usdoj.gov>; 'lynette.c.kelly@usdoj.gov' <lynette.c.kelly@usdoj.gov>
Cc: Fay, Abigail (MYR) <abigail.fay@sfgov.org>; Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>; Kelly, Jr, Harlan (PUC) <HKelly@sfwater.org>; Caen, Ann Moller (PUC) <ACaen@sfwater.org>; Vietor, Francesca (PUC) <fvietor@sfwater.org>; Moran, Anson (PUC) <AMoran@sfwater.org>; Kwon, Ike (PUC) <IKwon@sfwater.org>
Subject: Letter from Mayor London Breed and City Attorney Dennis Herrera

Dear Mr. Laffredi and Ms. Kelly,
Please find attached a letter from Mayor Breed and City Attorney Herrera regarding The Utility Reform Network's request to appoint an official ratepayers committee.

Best,
Brittany Feitelberg

Brittany Kneebone Feitelberg
Director of Executive Affairs
Office of City Attorney Dennis Herrera
(415) 554-4748 Direct
www.sfcityattorney.org
Find us on: Facebook Twitter Instagram

OFFICE OF THE MAYOR
SAN FRANCISCO

LONDON N. BREED
MAYOR

OFFICE OF THE CITY ATTORNEY
SAN FRANCISCO

DENNIS J. HERRERA
CITY ATTORNEY

February 22, 2019

Via Facsimile and Email

Andrew R. Vara
Acting United States Trustee for Region 3
c/o Timothy S. Laffredi
Assistant United States Trustee
timothy.s.laffredi@usdoj.gov
Lynette C. Kelly, Trial Attorney
lynette.c.kelly@usdoj.gov
Office of the United States Trustee
450 Golden Gate Avenue, Suite 05-0153
San Francisco, CA 94102
Facsimile: (415) 705-3379; (415) 705-3367

Re: In re PG&E Corporation, Case No. 19-30088 DM
In re Pacific Gas and Electric Company, Case No. 19-30089 DM
TURN Request to Appoint Official Ratepayers Committee

Dear Mr. Laffredi and Ms. Kelly:

The City and County of San Francisco (San Francisco) respectfully supports the request by the The Utility Reform Network (TURN) to appoint an official committee of ratepayers in the above-referenced cases.

Pacific Gas and Electric (PG&E) is the investor-owned utility that serves San Francisco. As described in TURN's letter requesting a ratepayers committee, PG&E passes through most of its costs to its ratepayers. The citizens of San Francisco are impacted by PG&E's rates regardless of whether they take gas and electric service solely from PG&E, or are customers of San Francisco's publicly-owned utility or San Francisco's community choice aggregation program, CleanPowerSF. Therefore, San Francisco strongly supports an official committee to advocate on behalf of ratepayers.

San Francisco agrees with TURN that ratepayers represent unique interests in these proceedings. Indeed, while we in no way intend to minimize the critical interests of fire victims and their communities (and San Francisco is pleased that a committee has been formed to represent their interests), ratepayers likely represent one of the largest interests in terms of the long-term monetary impacts of PG&E's bankruptcy proceedings. That is because of PG&E's ability to potentially recover its costs, including claims paid to other creditors, by passing them on to ratepayers – this is a very different posture than other creditors in these bankruptcy cases. Given these unique interests, the two current official committees representing general unsecured

1 DR. CARLTON B. GOODLETT PLACE, ROOM 200
SAN FRANCISCO, CALIFORNIA 94102-4681
TELEPHONE: (415)554-6141

creditors and fire victims/tort claimants, as presently constituted, do not adequately represent ratepayers.

In support of TURN's request, San Francisco notes the extraordinary nature of these bankruptcy cases. This is the second time in the past 18 years that PG&E has declared bankruptcy. As a result of PG&E's prior bankruptcy, ratepayers paid costs in the ***billions of dollars*** through increased rates. PG&E's customers already pay some of the highest rates in the country and the current bankruptcy proceeding will likely result in even higher rates. The effects on ratepayers described in TURN's request are not mere hypothetical effects, but real, long-term financial burdens that customers could bear for many years to come.

To be clear San Francisco does not intend to participate on a ratepayers committee should you agree to form one, due to San Francisco's serious interest in negotiating with PG&E to acquire electric infrastructure assets in the City and County, subject ultimately to approval of the bankruptcy court. San Francisco is currently undertaking a due diligence and feasibility analysis to inform its decision about making an offer. But San Francisco urges the appointment of an official ratepayers committee to ensure that ratepayers' distinct interests have a formal avenue to be effectively and efficiently represented in the PG&E bankruptcy cases.

Very truly yours,

LONDON N. BREED, MAYOR

DENNIS J. HERRERA, CITY ATTORNEY

cc: Board of Supervisors
PUC Commission
PUC General Manager

From:	Board of Supervisors, (BOS)
To:	BOS-Supervisors
Subject:	FW: CCSF Monthly Pooled Investment Report for January 2019
Date:	Sunday, February 17, 2019 8:59:00 AM
Attachments:	CCSF Monthly Pooled Investment Report for January 2019.pdf

From: Dion, Ichieh (TTX)
Sent: Friday, February 15, 2019 12:06 PM
Subject: CCSF Monthly Pooled Investment Report for January 2019

All-

Please find the CCSF Pooled Investment Report for the month of January attached for your use.

Regards,

Ichieh Dion
City and County of San Francisco
1 Dr. Carlton B. Goodlett Place, Room 140
San Francisco, CA 94102
415-554-5433

Office of the Treasurer & Tax Collector
City and County of San Francisco

Tajel Shah, Chief Assistant Treasurer
Robert L. Shaw, CFA, Chief Investment Officer

José Cisneros, Treasurer

Investment Report for the month of January 2019

February 15, 2019

The Honorable London N. Breed
Mayor of San Francisco
City Hall, Room 200
1 Dr. Carlton B. Goodlett Place
San Francisco, CA 94102-4638

The Honorable Board of Supervisors
City and County of San Franicsco
City Hall, Room 244
1 Dr. Carlton B. Goodlett Place
San Francisco, CA 94102-4638

Ladies and Gentlemen,

In accordance with the provisions of California State Government Code, Section 53646, we forward this report detailing the City's pooled fund portfolio as of January 31, 2019. These investments provide sufficient liquidity to meet expenditure requirements for the next six months and are in compliance with our statement of investment policy and California Code.

This correspondence and its attachments show the investment activity for the month of January 2019 for the portfolios under the Treasurer's management. All pricing and valuation data is obtained from Interactive Data Corporation.

CCSF Pooled Fund Investment Earnings Statistics *

	Current Month		Prior Month	
(in $ million)	Fiscal YTD	January 2019	Fiscal YTD	December 2018
Average Daily Balance	$ 10,106	$ 10,457	$ 10,047	$ 10,654
Net Earnings	131.84	21.18	110.66	21.23
Earned Income Yield	2.21%	2.39%	2.18%	2.35%

CCSF Pooled Fund Statistics *

(in $ million) Investment Type	% of Portfolio	Book Value	Market Value	Wtd. Avg. Coupon	Wtd. Avg. YTM	WAM
U.S. Treasuries	8.53%	$ 899.7	$ 900.5	1.01%	2.10%	381
Federal Agencies	48.96%	5,195.5	5,170.5	2.12%	2.21%	630
State & Local Government Agency Obligations	1.32%	141.7	139.3	2.22%	1.96%	473
Public Time Deposits	0.33%	35.2	35.2	2.49%	2.49%	111
Negotiable CDs	18.47%	1,947.8	1,950.5	2.86%	2.86%	181
Commercial Paper	10.82%	1,134.4	1,142.3	0.00%	2.74%	111
Medium Term Notes	0.50%	53.3	53.3	2.19%	2.44%	278
Money Market Funds	3.42%	361.2	361.2	2.32%	2.32%	1
Supranationals	7.66%	809.6	808.9	4.61%	2.38%	554
Totals	100.0%	$ 10,578.3	$ 10,561.8	1.94%	2.39%	437

In the remainder of this report, we provide additional information and analytics at the security-level and portfolio-level, as recommended by the California Debt and Investment Advisory Commission.

Very truly yours,

José Cisneros
Treasurer

cc: Treasury Oversight Committee: Aimee Brown, Kevin Kone, Reeta Madhavan, Eric Sandler
Ben Rosenfield - Controller, Office of the Controller
Tonia Lediju, Ph.D. - Chief Audit Executive, Office of the Controller
Mayor's Office of Public Policy and Finance
San Francisco County Transportation Authority
San Francisco Public Library
San Francisco Health Service System

Portfolio Summary
Pooled Fund

As of January 31, 2019

(in $ million) Security Type	Par Value	Book Value	Market Value	Market/Book Price	Current % Allocation	Max. Policy Allocation	Compliant?
U.S. Treasuries	$ 910.0	$ 899.7	$ 900.5	100.09	8.53%	100%	Yes
Federal Agencies	5,200.0	5,195.5	5,170.5	99.52	48.96%	100%	Yes
State & Local Government Agency Obligations	140.1	141.7	139.3	98.35	1.32%	20%	Yes
Public Time Deposits	35.2	35.2	35.2	100.00	0.33%	100%	Yes
Negotiable CDs	1,947.8	1,947.8	1,950.5	100.14	18.47%	30%	Yes
Bankers Acceptances	-	-	-	-	0.00%	40%	Yes
Commercial Paper	1,152.0	1,134.4	1,142.3	100.70	10.82%	25%	Yes
Medium Term Notes	53.5	53.3	53.3	99.99	0.50%	25%	Yes
Repurchase Agreements	-	-	-	-	0.00%	10%	Yes
Reverse Repurchase/ Securities Lending Agreements	-	-	-	-	0.00%	$75mm	Yes
Money Market Funds - Government	361.2	361.2	361.2	100.00	3.42%	20%	Yes
LAIF	-	-	-	-	0.00%	$50mm	Yes
Supranationals	813.5	809.6	808.9	99.92	7.66%	30%	Yes
TOTAL	**$ 10,613.3**	**$ 10,578.3**	**$ 10,561.8**	**99.84**	**100.00%**	**-**	**Yes**

The City and County of San Francisco uses the following methodology to determine compliance: Compliance is pre-trade and calculated on both a par and market value basis, using the result with the lowest percentage of the overall portfolio value. Cash balances are included in the City's compliance calculations.

Please note the information in this report does not include cash balances. Due to fluctuations in the market value of the securities held in the Pooled Fund and changes in the City's cash position, the allocation limits may be exceeded on a post-trade compliance basis. In these instances, no compliance violation has occurred, as the policy limits were not exceeded prior to trade execution.
The full Investment Policy can be found at http://www.sftreasurer.org/, in the Reports & Plans section of the About menu.

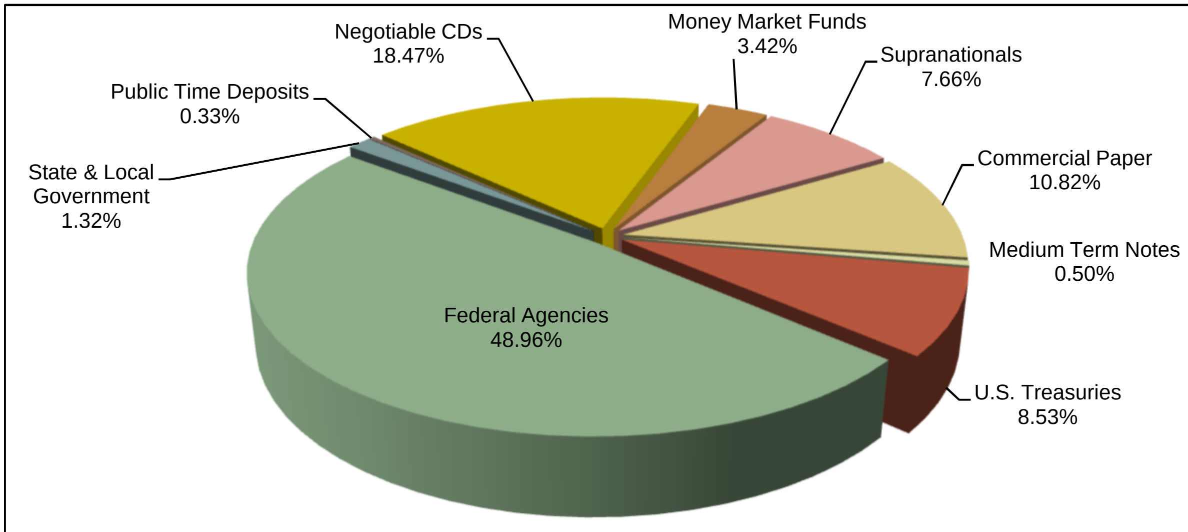
Totals may not add due to rounding.

City and County of San Francisco
Pooled Fund Portfolio Statistics

For the month ended January 31, 2019

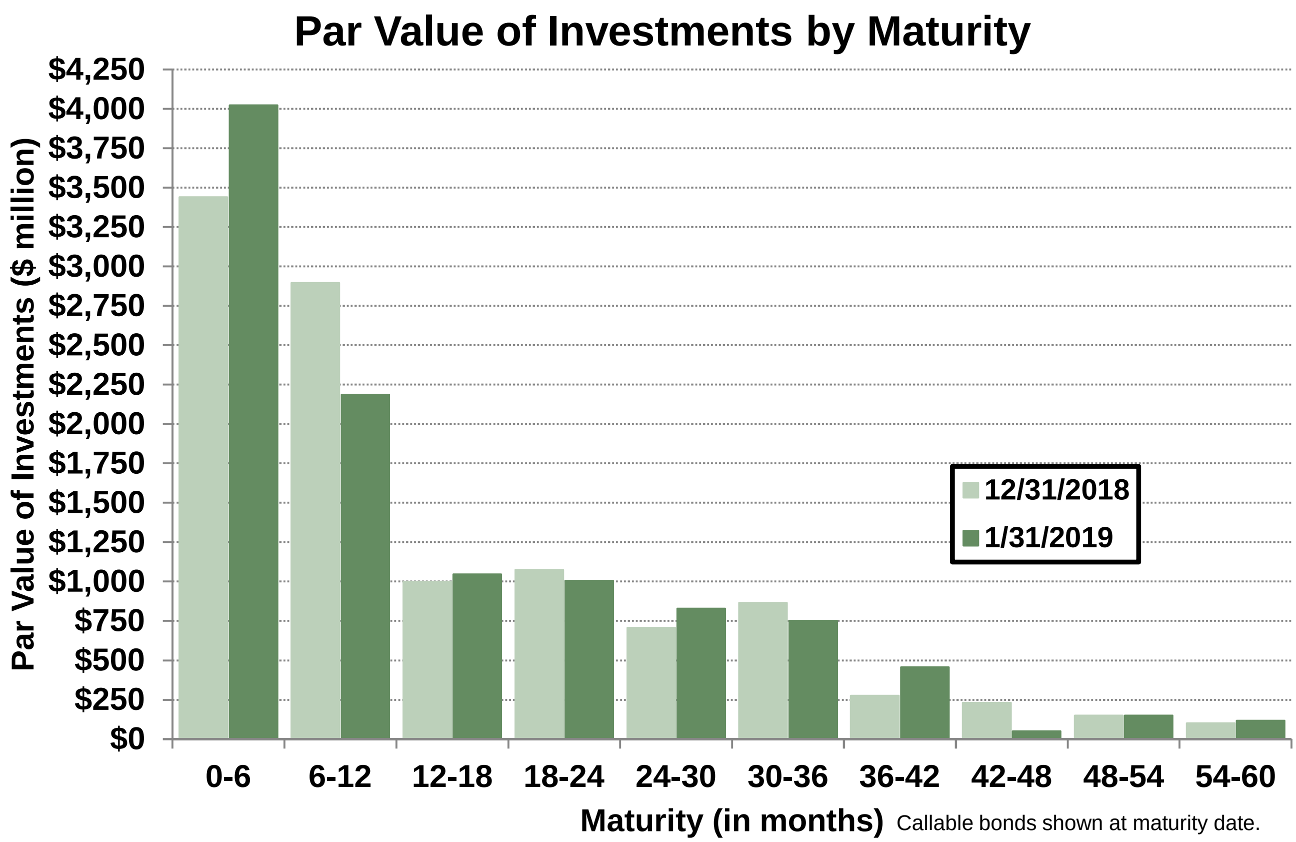
Average Daily Balance	$10,457,102,703
Net Earnings	$21,183,303
Earned Income Yield	2.39%
Weighted Average Maturity	437 days

Investment Type	*($ million)*	**Par Value**	**Book Value**	**Market Value**
U.S. Treasuries		$ 910.0	$ 899.7	$ 900.5
Federal Agencies		5,200.0	5,195.5	5,170.5
State & Local Government Agency Obligations		140.1	141.7	139.3
Public Time Deposits		35.2	35.2	35.2
Negotiable CDs		1,947.8	1,947.8	1,950.5
Commercial Paper		1,152.0	1,134.4	1,142.3
Medium Term Notes		53.5	53.3	53.3
Money Market Funds		361.2	361.2	361.2
Supranationals		813.5	809.6	808.9
Total		**$ 10,613.3**	**$ 10,578.3**	**$ 10,561.8**

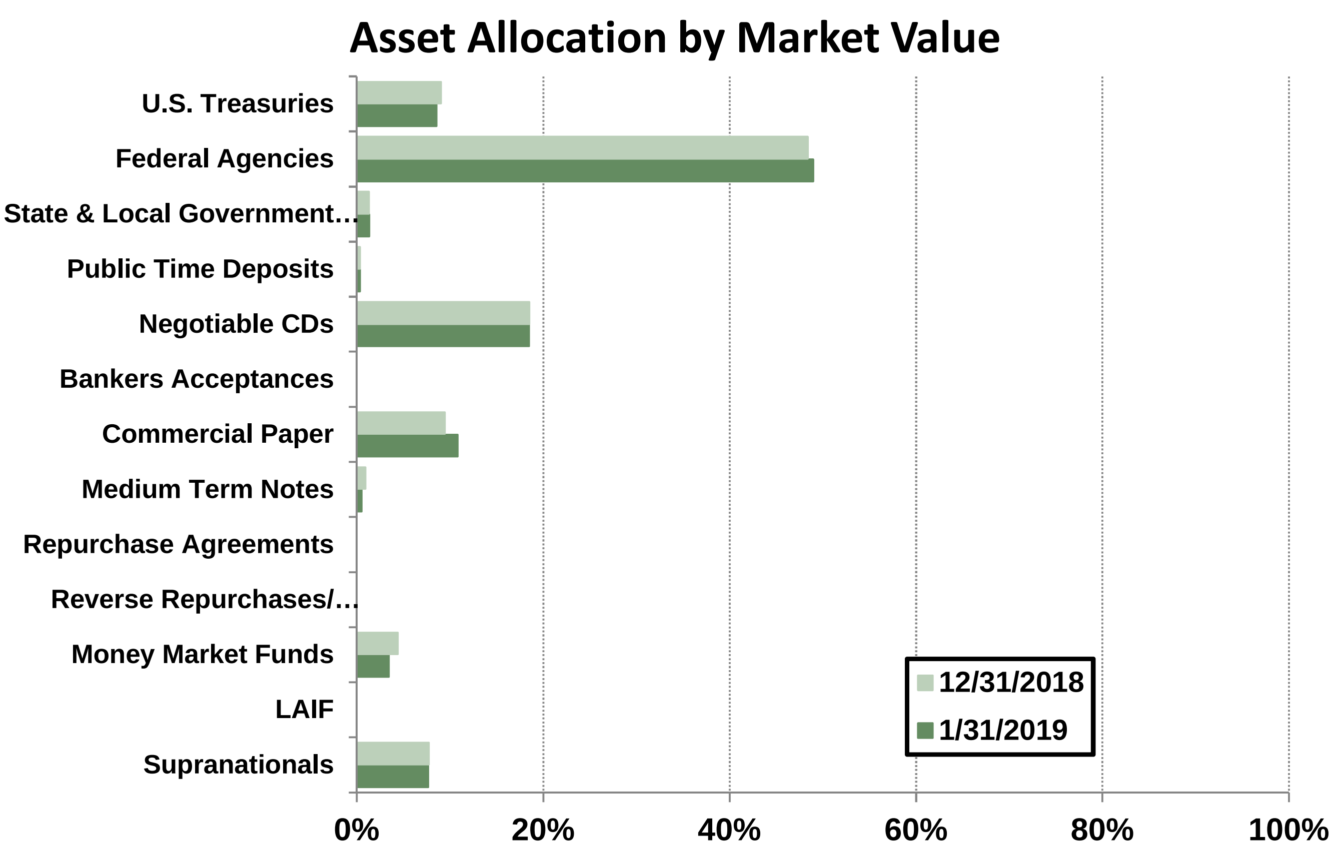


Asset Allocation by Market Value

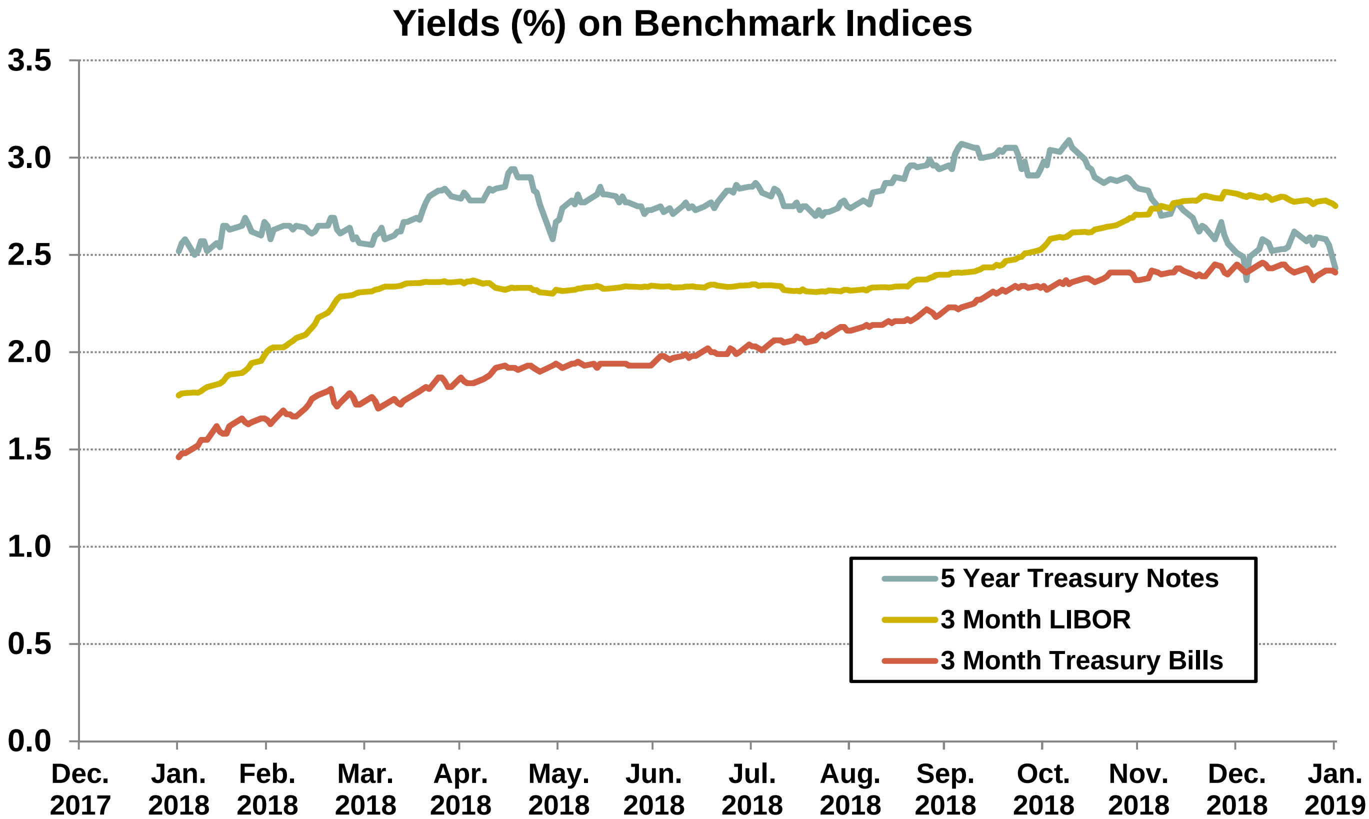
Portfolio Analysis
Pooled Fund



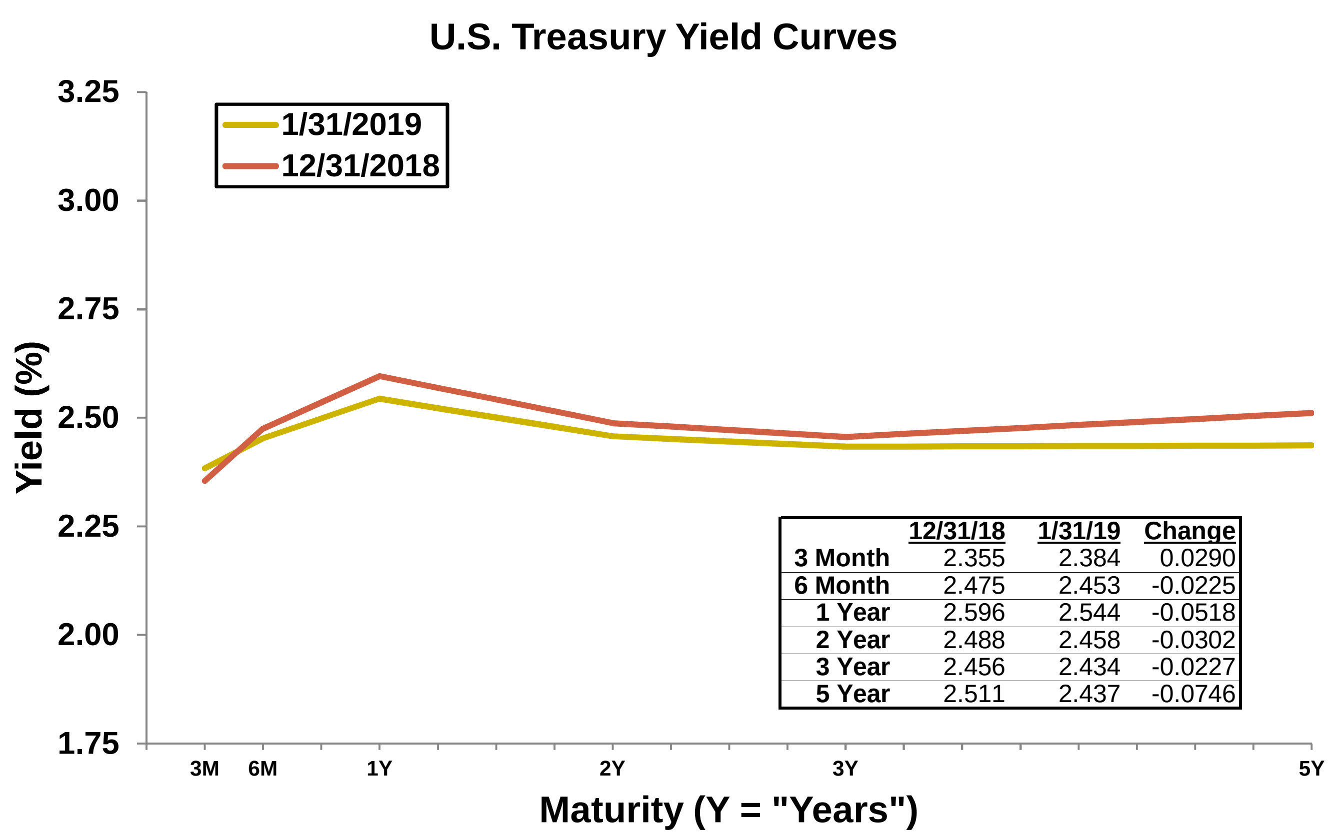
Callable bonds shown at maturity date.



Yield Curves



Source: Bloomberg



	12/31/18	1/31/19	Change
3 Month	2.355	2.384	0.0290
6 Month	2.475	2.453	-0.0225
1 Year	2.596	2.544	-0.0518
2 Year	2.488	2.458	-0.0302
3 Year	2.456	2.434	-0.0227
5 Year	2.511	2.437	-0.0746

Source: Bloomberg

Investment Inventory
Pooled Fund

As of January 31, 2019

Type of Investment	CUSIP	Issuer Name	Settle Date	Maturity Date	Coupon		Par Value		Book Value		Amortized Book Value		Market Value
U.S. Treasuries	912796UM9	TREASURY BILL	1/31/2019	2/5/2019	0.00	$	50,000,000	$	49,983,944	$	49,987,156	$	49,987,500
U.S. Treasuries	912828P53	US TREASURY	4/12/2018	2/15/2019	0.75		50,000,000		49,437,500		49,974,515		49,969,500
U.S. Treasuries	912796PT0	TREASURY BILL	3/1/2018	2/28/2019	0.00		50,000,000		48,978,778		49,924,250		49,911,500
U.S. Treasuries	912828Q52	US TREASURY	5/10/2018	4/15/2019	0.88		50,000,000		49,371,094		49,864,970		49,851,000
U.S. Treasuries	912828Q52	US TREASURY	6/7/2018	4/15/2019	0.88		50,000,000		49,394,531		49,858,336		49,851,000
U.S. Treasuries	912828R44	US TREASURY	5/10/2018	5/15/2019	0.88		35,000,000		34,499,609		34,860,702		34,844,250
U.S. Treasuries	912796QH5	TREASURY BILL	5/24/2018	5/23/2019	0.00		60,000,000		58,619,833		59,579,125		59,561,400
U.S. Treasuries	912828XS4	US TREASURY	6/20/2017	5/31/2019	1.25		50,000,000		49,896,484		49,982,650		49,804,500
U.S. Treasuries	912796QM4	TREASURY BILL	10/1/2018	6/20/2019	0.00		40,000,000		39,300,606		39,628,947		39,632,000
U.S. Treasuries	912828T59	US TREASURY	5/18/2018	10/15/2019	1.00		25,000,000		24,492,188		24,747,573		24,732,500
U.S. Treasuries	912828T59	US TREASURY	8/15/2018	10/15/2019	1.00		50,000,000		49,134,766		49,480,047		49,465,000
U.S. Treasuries	9128283N8	US TREASURY	1/16/2018	12/31/2019	1.88		50,000,000		49,871,094		49,939,880		49,687,500
U.S. Treasuries	912828XU9	US TREASURY	6/20/2017	6/15/2020	1.50		50,000,000		49,982,422		49,991,944		49,332,000
U.S. Treasuries	912828XU9	US TREASURY	12/20/2018	6/15/2020	1.50		100,000,000		98,333,104		98,446,133		98,664,000
U.S. Treasuries	912828S27	US TREASURY	8/15/2017	6/30/2021	1.13		25,000,000		24,519,531		24,701,193		24,239,250
U.S. Treasuries	912828T67	US TREASURY	11/10/2016	10/31/2021	1.25		50,000,000		49,574,219		49,764,836		48,416,000
U.S. Treasuries	912828U65	US TREASURY	12/13/2016	11/30/2021	1.75		100,000,000		99,312,500		99,608,280		98,113,000
U.S. Treasuries	912828XW5	US TREASURY	8/15/2017	6/30/2022	1.75		25,000,000		24,977,539		24,984,290		24,445,250
Subtotals					**1.01**	**$**	**910,000,000**	**$**	**899,679,742**	**$**	**905,324,825**	**$**	**900,507,150**
Federal Agencies	3134GAS39	FREDDIE MAC	2/1/2017	2/1/2019	2.00	$	25,000,000	$	25,000,000	$	25,000,000	$	25,000,000
Federal Agencies	3132X0R94	FARMER MAC	4/5/2018	2/15/2019	2.14		25,000,000		25,000,000		25,000,000		24,998,250
Federal Agencies	313384CC1	FED HOME LN DISCOUNT NT	1/29/2019	2/20/2019	0.00		50,000,000		49,927,889		49,937,722		49,937,000
Federal Agencies	313384CE7	FED HOME LN DISCOUNT NT	1/29/2019	2/22/2019	0.00		10,600,000		10,583,323		10,585,407		10,585,266
Federal Agencies	3133EGBU8	FEDERAL FARM CREDIT BANK	5/25/2016	2/25/2019	2.69		50,000,000		50,000,000		50,000,000		50,008,000
Federal Agencies	3130AAXX1	FEDERAL HOME LOAN BANK	4/6/2018	3/18/2019	1.38		9,500,000		9,429,985		9,490,894		9,487,460
Federal Agencies	3130AAXX1	FEDERAL HOME LOAN BANK	4/6/2018	3/18/2019	1.38		50,000,000		49,621,252		49,950,741		49,934,000
Federal Agencies	3132X0ED9	FARMER MAC	1/19/2016	3/19/2019	2.87		40,000,000		40,000,000		40,000,000		40,012,000
Federal Agencies	3133EJHG7	FEDERAL FARM CREDIT BANK	3/22/2018	3/22/2019	2.13		25,000,000		24,993,050		24,999,067		24,992,000
Federal Agencies	3133EJHG7	FEDERAL FARM CREDIT BANK	3/22/2018	3/22/2019	2.13		25,000,000		24,993,050		24,999,067		24,992,000
Federal Agencies	3134GBFR8	FREDDIE MAC	4/5/2017	4/5/2019	1.40		25,000,000		25,000,000		25,000,000		24,956,750
Federal Agencies	3137EADZ9	FREDDIE MAC	5/10/2018	4/15/2019	1.13		19,979,000		19,765,424		19,933,144		19,924,657
Federal Agencies	3133EF7L5	FEDERAL FARM CREDIT BANK	6/6/2018	5/16/2019	1.17		5,900,000		5,835,100		5,880,379		5,879,704
Federal Agencies	3133EGAV7	FEDERAL FARM CREDIT BANK	12/5/2017	5/17/2019	1.17		50,350,000		49,861,605		50,252,876		50,175,286
Federal Agencies	3136G3QP3	FANNIE MAE	5/24/2016	5/24/2019	1.25		10,000,000		10,000,000		10,000,000		9,961,200
Federal Agencies	3130ABF92	FEDERAL HOME LOAN BANK	5/12/2017	5/28/2019	1.38		30,000,000		29,943,300		29,991,183		29,897,700
Federal Agencies	3133EHLG6	FEDERAL FARM CREDIT BANK	5/30/2017	5/30/2019	1.32		27,000,000		26,983,800		26,997,381		26,907,120
Federal Agencies	3130AEFB1	FEDERAL HOME LOAN BANK	6/6/2018	6/6/2019	2.25		12,450,000		12,439,169		12,446,291		12,442,032
Federal Agencies	3133EHMR1	FEDERAL FARM CREDIT BANK	6/12/2017	6/12/2019	1.38		50,000,000		50,000,000		50,000,000		49,819,500
Federal Agencies	313379EE5	FEDERAL HOME LOAN BANK	6/9/2017	6/14/2019	1.63		25,000,000		25,105,750		25,019,136		24,925,500
Federal Agencies	313379EE5	FEDERAL HOME LOAN BANK	8/23/2017	6/14/2019	1.63		25,000,000		25,108,750		25,021,915		24,925,500
Federal Agencies	313379EE5	FEDERAL HOME LOAN BANK	8/9/2017	6/14/2019	1.63		35,750,000		35,875,840		35,774,832		35,643,465
Federal Agencies	3134G9QW0	FREDDIE MAC	6/14/2016	6/14/2019	1.28		50,000,000		50,000,000		50,000,000		49,781,000
Federal Agencies	3130AC7C2	FEDERAL HOME LOAN BANK	8/23/2017	7/1/2019	1.40		15,000,000		15,005,400		15,001,196		14,934,900
Federal Agencies	3133EGJX4	FEDERAL FARM CREDIT BANK	5/23/2018	7/5/2019	1.08		35,370,000		34,836,267		35,168,542		35,173,697
Federal Agencies	3134G9YR2	FREDDIE MAC	7/12/2016	7/12/2019	2.25		50,000,000		50,000,000		50,000,000		49,945,000
Federal Agencies	3130A8Y72	FEDERAL HOME LOAN BANK	4/19/2018	8/5/2019	0.88		5,000,000		4,905,088		4,962,878		4,958,750
Federal Agencies	3130A8Y72	FEDERAL HOME LOAN BANK	5/10/2018	8/5/2019	0.88		6,000,000		5,886,596		5,953,585		5,950,500
Federal Agencies	3130A8Y72	FEDERAL HOME LOAN BANK	4/19/2018	8/5/2019	0.88		24,000,000		23,545,680		23,822,306		23,802,000

Investment Inventory
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Type of Investment	CUSIP	Issuer Name	Settle Date	Maturity Date	Coupon	Par Value	Book Value	Amortized Book Value	Market Value
Federal Agencies	3130A8Y72	FEDERAL HOME LOAN BANK	9/27/2018	8/5/2019	0.88	36,010,000	35,531,207	35,699,114	35,712,918
Federal Agencies	3133EGED3	FEDERAL FARM CREDIT BANK	6/9/2016	8/9/2019	2.70	25,000,000	25,000,000	25,000,000	25,033,000
Federal Agencies	3133EGED3	FEDERAL FARM CREDIT BANK	6/9/2016	8/9/2019	2.70	25,000,000	25,000,000	25,000,000	25,033,000
Federal Agencies	3134G94F1	FREDDIE MAC	8/15/2016	8/15/2019	1.50	25,000,000	25,000,000	25,000,000	24,872,000
Federal Agencies	3133EGX67	FEDERAL FARM CREDIT BANK	12/20/2016	8/20/2019	2.62	50,000,000	50,000,000	50,000,000	50,042,500
Federal Agencies	3135G0P23	FANNIE MAE	8/30/2016	8/23/2019	1.25	20,000,000	20,000,000	20,000,000	19,859,000
Federal Agencies	3136G3X59	FANNIE MAE	8/23/2016	8/23/2019	1.10	25,000,000	25,000,000	25,000,000	24,803,000
Federal Agencies	3134G9GS0	FREDDIE MAC	5/26/2016	8/26/2019	1.25	25,000,000	25,000,000	25,000,000	24,818,500
Federal Agencies	3134GAFY5	FREDDIE MAC	11/28/2017	8/28/2019	1.30	8,450,000	8,374,795	8,425,482	8,392,456
Federal Agencies	3134GAHR8	FREDDIE MAC	9/23/2016	9/23/2019	2.00	25,000,000	25,000,000	25,000,000	24,971,000
Federal Agencies	3135G0Q30	FANNIE MAE	10/21/2016	9/27/2019	1.18	50,000,000	50,000,000	50,000,000	49,559,000
Federal Agencies	3132X0KH3	FARMER MAC	10/6/2016	10/1/2019	2.81	50,000,000	50,000,000	50,000,000	50,055,000
Federal Agencies	3133EJF79	FEDERAL FARM CREDIT BANK	10/10/2018	10/10/2019	2.65	36,000,000	35,987,760	35,991,583	36,035,280
Federal Agencies	3133EGXK6	FEDERAL FARM CREDIT BANK	12/1/2017	10/11/2019	1.12	20,000,000	19,732,000	19,900,536	19,809,600
Federal Agencies	3134G8TG4	FREDDIE MAC	4/11/2016	10/11/2019	1.50	15,000,000	15,000,000	15,000,000	14,890,650
Federal Agencies	3130ACM92	FEDERAL HOME LOAN BANK	10/13/2017	10/21/2019	1.50	21,500,000	21,461,945	21,486,490	21,351,005
Federal Agencies	3136G0T68	FANNIE MAE	8/28/2017	10/24/2019	1.33	14,000,000	13,968,220	13,989,299	13,876,100
Federal Agencies	3134GBHT2	FREDDIE MAC	9/12/2017	10/25/2019	1.63	50,000,000	50,024,500	50,008,431	49,675,000
Federal Agencies	3136G4FJ7	FANNIE MAE	10/25/2016	10/25/2019	1.20	25,000,000	25,000,000	25,000,000	24,754,250
Federal Agencies	3136G4EZ2	FANNIE MAE	10/28/2016	10/30/2019	1.13	50,000,000	49,950,000	49,987,648	49,471,000
Federal Agencies	3134GAVL5	FREDDIE MAC	11/4/2016	11/4/2019	1.17	100,000,000	100,000,000	100,000,000	98,954,000
Federal Agencies	3133EJRU5	FEDERAL FARM CREDIT BANK	6/14/2018	11/14/2019	2.45	50,000,000	49,987,500	49,993,098	49,968,000
Federal Agencies	3136G3LV5	FANNIE MAE	5/26/2016	11/26/2019	1.35	8,950,000	8,950,000	8,950,000	8,863,722
Federal Agencies	3133EGN43	FEDERAL FARM CREDIT BANK	12/2/2016	12/2/2019	2.68	50,000,000	50,000,000	50,000,000	50,076,000
Federal Agencies	3130A0JR2	FEDERAL HOME LOAN BANK	12/15/2017	12/13/2019	2.38	11,360,000	11,464,888	11,405,384	11,340,461
Federal Agencies	3130A0JR2	FEDERAL HOME LOAN BANK	12/12/2017	12/13/2019	2.38	20,000,000	20,186,124	20,080,204	19,965,600
Federal Agencies	3130A0JR2	FEDERAL HOME LOAN BANK	12/15/2017	12/13/2019	2.38	40,000,000	40,369,200	40,159,750	39,931,200
Federal Agencies	3134G9VR5	FREDDIE MAC	7/6/2016	1/6/2020	2.00	25,000,000	25,000,000	25,000,000	24,881,250
Federal Agencies	3136G4KQ5	FANNIE MAE	11/17/2017	1/17/2020	1.65	1,000,000	996,070	998,261	991,520
Federal Agencies	3136G4KQ5	FANNIE MAE	11/17/2017	1/17/2020	1.65	31,295,000	31,172,011	31,240,580	31,029,618
Federal Agencies	3133EJLU1	FEDERAL FARM CREDIT BANK	4/24/2018	1/24/2020	2.42	25,000,000	24,996,500	24,998,048	24,962,500
Federal Agencies	3133EJLU1	FEDERAL FARM CREDIT BANK	4/24/2018	1/24/2020	2.42	25,000,000	24,995,700	24,997,601	24,962,500
Federal Agencies	3130ADN32	FEDERAL HOME LOAN BANK	2/9/2018	2/11/2020	2.13	50,000,000	49,908,500	49,953,125	49,761,000
Federal Agencies	313378J77	FEDERAL HOME LOAN BANK	5/17/2017	3/13/2020	1.88	15,710,000	15,843,849	15,762,709	15,584,477
Federal Agencies	3133EHZN6	FEDERAL FARM CREDIT BANK	9/20/2017	3/20/2020	1.45	20,000,000	19,979,400	19,990,671	19,764,200
Federal Agencies	3133EJHL6	FEDERAL FARM CREDIT BANK	3/27/2018	3/27/2020	2.38	50,000,000	49,964,000	49,979,316	49,924,500
Federal Agencies	3136G3TK1	FANNIE MAE	7/6/2016	4/6/2020	2.00	25,000,000	25,000,000	25,000,000	24,913,500
Federal Agencies	3134GBET5	FREDDIE MAC	5/22/2018	4/13/2020	1.80	10,000,000	9,839,400	9,898,581	9,909,800
Federal Agencies	3133EJG37	FEDERAL FARM CREDIT BANK	10/15/2018	4/15/2020	2.85	25,000,000	24,992,500	24,993,992	25,100,500
Federal Agencies	3136G4BL6	FANNIE MAE	10/17/2016	4/17/2020	1.25	15,000,000	15,000,000	15,000,000	14,773,350
Federal Agencies	3130AE2M1	FEDERAL HOME LOAN BANK	4/20/2018	4/20/2020	2.50	50,000,000	50,000,000	50,000,000	49,936,000
Federal Agencies	3137EAEM7	FREDDIE MAC	4/19/2018	4/23/2020	2.50	35,000,000	34,992,300	34,995,317	34,996,150
Federal Agencies	3130AE2U3	FEDERAL HOME LOAN BANK	4/24/2018	4/24/2020	2.51	50,000,000	50,000,000	50,000,000	49,937,500
Federal Agencies	3130AE2U3	FEDERAL HOME LOAN BANK	4/24/2018	4/24/2020	2.51	50,000,000	50,000,000	50,000,000	49,937,500
Federal Agencies	3134GBLY6	FREDDIE MAC	5/8/2017	5/8/2020	2.00	25,000,000	25,000,000	25,000,000	24,978,750
Federal Agencies	3134GBPB2	FREDDIE MAC	5/30/2017	5/22/2020	1.70	15,750,000	15,750,000	15,750,000	15,582,578
Federal Agencies	3133EHNK5	FEDERAL FARM CREDIT BANK	6/15/2017	6/15/2020	1.54	25,000,000	24,997,500	24,998,859	24,672,250
Federal Agencies	3133EHNK5	FEDERAL FARM CREDIT BANK	6/15/2017	6/15/2020	1.54	26,900,000	26,894,620	26,897,546	26,547,341
Federal Agencies	3134GBST0	FREDDIE MAC	6/22/2017	6/22/2020	1.65	14,675,000	14,675,000	14,675,000	14,497,873
Federal Agencies	3134GBTX0	FREDDIE MAC	6/29/2017	6/29/2020	1.75	50,000,000	49,990,000	49,995,310	49,379,500

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Federal Agencies	3136G3TG0	FANNIE MAE	6/30/2016	6/30/2020	1.50	15,000,000	15,000,000	15,000,000	14,826,150
Federal Agencies	3134GB5M0	FREDDIE MAC	12/1/2017	7/1/2020	1.96	50,000,000	50,000,000	50,000,000	49,570,000
Federal Agencies	3133EHQB2	FEDERAL FARM CREDIT BANK	7/6/2017	7/6/2020	1.55	25,000,000	24,989,961	24,995,228	24,661,500
Federal Agencies	3130ABNV4	FEDERAL HOME LOAN BANK	7/13/2017	7/13/2020	1.75	50,000,000	50,000,000	50,000,000	49,395,500
Federal Agencies	3134GBXV9	FREDDIE MAC	7/13/2017	7/13/2020	1.85	50,000,000	50,000,000	50,000,000	49,497,000
Federal Agencies	3135G0T60	FANNIE MAE	8/1/2017	7/30/2020	1.50	50,000,000	49,848,500	49,924,527	49,275,000
Federal Agencies	3130ABZE9	FEDERAL HOME LOAN BANK	8/28/2017	8/28/2020	1.65	6,700,000	6,699,330	6,699,649	6,610,220
Federal Agencies	3130ABZN9	FEDERAL HOME LOAN BANK	8/28/2017	8/28/2020	1.80	25,000,000	25,000,000	25,000,000	24,690,750
Federal Agencies	3130ABZN9	FEDERAL HOME LOAN BANK	8/28/2017	8/28/2020	1.80	50,000,000	50,000,000	50,000,000	49,381,500
Federal Agencies	3130ADT93	FEDERAL HOME LOAN BANK	3/14/2018	9/14/2020	2.40	25,000,000	24,984,458	24,989,961	24,959,750
Federal Agencies	3133EJ3N7	FEDERAL FARM CREDIT BANK	12/21/2018	9/21/2020	2.77	25,000,000	24,990,750	24,991,357	25,097,750
Federal Agencies	3130ACE26	FEDERAL HOME LOAN BANK	9/8/2017	9/28/2020	1.38	18,000,000	17,942,220	17,968,677	17,670,960
Federal Agencies	3130ACE26	FEDERAL HOME LOAN BANK	9/8/2017	9/28/2020	1.38	30,000,000	29,903,700	29,947,794	29,451,600
Federal Agencies	3130ACK52	FEDERAL HOME LOAN BANK	3/12/2018	10/5/2020	1.70	25,530,000	25,035,101	25,207,102	25,186,877
Federal Agencies	3132X0KR1	FARMER MAC	11/2/2016	11/2/2020	2.72	25,000,000	25,000,000	25,000,000	25,085,250
Federal Agencies	3132X0ZF1	FARMER MAC	11/13/2017	11/9/2020	1.93	12,000,000	11,970,000	11,982,225	11,873,400
Federal Agencies	3133EJT90	FEDERAL FARM CREDIT BANK	11/16/2018	11/16/2020	2.95	50,000,000	49,947,835	49,953,329	50,363,500
Federal Agencies	3137EAEK1	FREDDIE MAC	11/15/2017	11/17/2020	1.88	50,000,000	49,952,000	49,971,366	49,458,500
Federal Agencies	3134GBX56	FREDDIE MAC	11/24/2017	11/24/2020	2.25	60,000,000	60,223,200	60,134,816	59,700,600
Federal Agencies	3134GBLR1	FREDDIE MAC	5/25/2017	11/25/2020	1.75	24,715,000	24,712,529	24,713,720	24,373,933
Federal Agencies	3133EHW58	FEDERAL FARM CREDIT BANK	11/27/2017	11/27/2020	1.90	25,000,000	24,992,629	24,995,528	24,719,250
Federal Agencies	3133EHW58	FEDERAL FARM CREDIT BANK	11/27/2017	11/27/2020	1.90	25,000,000	24,992,629	24,995,528	24,719,250
Federal Agencies	3130A3UQ5	FEDERAL HOME LOAN BANK	12/13/2017	12/11/2020	1.88	10,000,000	9,957,600	9,973,684	9,883,500
Federal Agencies	3132X0ZY0	FARMER MAC	12/15/2017	12/15/2020	2.05	12,750,000	12,741,458	12,744,677	12,635,633
Federal Agencies	3133EGX75	FEDERAL FARM CREDIT BANK	12/21/2016	12/21/2020	2.69	50,000,000	50,000,000	50,000,000	50,122,500
Federal Agencies	3133EFTX5	FEDERAL FARM CREDIT BANK	12/24/2015	12/24/2020	2.85	100,000,000	100,000,000	100,000,000	100,466,000
Federal Agencies	3133EJ4Q9	FEDERAL FARM CREDIT BANK	1/11/2019	1/11/2021	2.55	100,000,000	99,934,000	99,935,896	100,042,000
Federal Agencies	3130AC2K9	FEDERAL HOME LOAN BANK	9/20/2017	2/10/2021	1.87	50,200,000	50,189,960	50,194,004	49,485,654
Federal Agencies	3133EJCE7	FEDERAL FARM CREDIT BANK	4/16/2018	2/12/2021	2.35	50,000,000	49,673,710	49,765,627	49,806,500
Federal Agencies	3137EAEL9	FREDDIE MAC	2/16/2018	2/16/2021	2.38	22,000,000	21,941,920	21,960,467	21,947,640
Federal Agencies	3134GBD58	FREDDIE MAC	8/30/2017	2/26/2021	1.80	5,570,000	5,569,443	5,569,670	5,487,731
Federal Agencies	3130AAYP7	FEDERAL HOME LOAN BANK	8/11/2017	3/22/2021	2.20	8,585,000	8,593,327	8,589,925	8,585,601
Federal Agencies	3132X0Q53	FARMER MAC	3/29/2018	3/29/2021	2.60	6,350,000	6,343,079	6,345,030	6,356,985
Federal Agencies	3132X0Q53	FARMER MAC	3/29/2018	3/29/2021	2.60	20,450,000	20,427,710	20,433,994	20,472,495
Federal Agencies	3134GBJP8	FREDDIE MAC	11/16/2017	5/3/2021	1.89	22,000,000	21,874,600	21,918,450	21,688,260
Federal Agencies	3133EJNS4	FEDERAL FARM CREDIT BANK	5/22/2018	5/10/2021	2.70	17,700,000	17,653,095	17,664,129	17,757,879
Federal Agencies	3134GSNV3	FREDDIE MAC	6/14/2018	6/14/2021	2.80	50,000,000	49,992,500	49,994,088	50,012,500
Federal Agencies	3130ACVS0	FEDERAL HOME LOAN BANK	11/30/2017	6/15/2021	2.13	50,000,000	50,000,000	50,000,000	49,479,500
Federal Agencies	3130ACVS0	FEDERAL HOME LOAN BANK	11/30/2017	6/15/2021	2.13	50,000,000	50,000,000	50,000,000	49,479,500
Federal Agencies	3135G0U35	FANNIE MAE	6/25/2018	6/22/2021	2.75	25,000,000	24,994,250	24,995,413	25,142,500
Federal Agencies	3134GBJ60	FREDDIE MAC	9/29/2017	6/29/2021	1.90	50,000,000	50,000,000	50,000,000	49,267,000
Federal Agencies	3134G9H26	FREDDIE MAC	1/29/2018	6/30/2021	1.50	1,219,000	1,201,934	1,206,966	1,209,577
Federal Agencies	3134G9H26	FREDDIE MAC	1/25/2018	6/30/2021	1.50	3,917,000	3,869,996	3,883,962	3,886,722
Federal Agencies	3130ACQ98	FEDERAL HOME LOAN BANK	11/1/2017	7/1/2021	2.08	100,000,000	100,000,000	100,000,000	98,906,000
Federal Agencies	3134GBM25	FREDDIE MAC	10/2/2017	7/1/2021	1.92	50,000,000	50,000,000	50,000,000	49,282,500
Federal Agencies	3130ACF33	FEDERAL HOME LOAN BANK	9/18/2017	9/13/2021	1.88	25,000,000	24,927,500	24,952,447	24,498,750
Federal Agencies	3135G0Q89	FANNIE MAE	10/21/2016	10/7/2021	1.38	25,000,000	25,000,000	25,000,000	24,282,500
Federal Agencies	3133EJK24	FEDERAL FARM CREDIT BANK	10/19/2018	10/19/2021	3.00	25,000,000	24,980,900	24,982,730	25,281,500
Federal Agencies	3130AFBE6	FEDERAL HOME LOAN BANK	10/30/2018	10/25/2021	3.26	50,000,000	50,000,000	50,000,000	50,063,500
Federal Agencies	3133EGZJ7	FEDERAL FARM CREDIT BANK	10/25/2016	10/25/2021	1.38	14,500,000	14,500,000	14,500,000	14,045,425

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Federal Agencies	3133EGZJ7	FEDERAL FARM CREDIT BANK	10/25/2016	10/25/2021	1.38	15,000,000	15,000,000	15,000,000	14,529,750
Federal Agencies	3133EJT74	FEDERAL FARM CREDIT BANK	11/15/2018	11/15/2021	3.05	50,000,000	49,950,000	49,953,558	50,640,500
Federal Agencies	3130ACB60	FEDERAL HOME LOAN BANK	9/8/2017	12/15/2021	2.00	50,000,000	50,000,000	50,000,000	48,974,500
Federal Agencies	3133EJ3B3	FEDERAL FARM CREDIT BANK	12/17/2018	12/17/2021	2.80	25,000,000	24,974,250	24,975,331	25,155,500
Federal Agencies	3133EJ3B3	FEDERAL FARM CREDIT BANK	12/17/2018	12/17/2021	2.80	25,000,000	24,974,250	24,975,331	25,155,500
Federal Agencies	3133EJ3B3	FEDERAL FARM CREDIT BANK	12/17/2018	12/17/2021	2.80	25,000,000	24,964,250	24,965,750	25,155,500
Federal Agencies	3134GSK38	FREDDIE MAC	12/20/2018	12/20/2021	3.17	25,000,000	25,000,000	25,000,000	25,026,250
Federal Agencies	3134GSK46	FREDDIE MAC	12/20/2018	12/20/2021	3.17	25,000,000	25,000,000	25,000,000	25,026,250
Federal Agencies	3134GSN27	FREDDIE MAC	12/21/2018	12/21/2021	3.13	25,000,000	25,000,000	25,000,000	25,030,500
Federal Agencies	3134GSN43	FREDDIE MAC	12/21/2018	12/21/2021	3.13	25,000,000	25,000,000	25,000,000	25,024,500
Federal Agencies	3130AFMD6	FEDERAL HOME LOAN BANK	1/3/2019	1/3/2022	3.03	25,000,000	25,000,000	25,000,000	25,018,000
Federal Agencies	3130AFMD6	FEDERAL HOME LOAN BANK	1/3/2019	1/3/2022	3.03	25,000,000	25,000,000	25,000,000	25,018,000
Federal Agencies	3130AFMD6	FEDERAL HOME LOAN BANK	1/3/2019	1/3/2022	3.03	25,000,000	25,000,000	25,000,000	25,018,000
Federal Agencies	3130AFMD6	FEDERAL HOME LOAN BANK	1/3/2019	1/3/2022	3.03	25,000,000	25,000,000	25,000,000	25,018,000
Federal Agencies	3135G0T45	FANNIE MAE	6/6/2017	4/5/2022	1.88	25,000,000	25,072,250	25,047,470	24,508,250
Federal Agencies	3134GBQG0	FREDDIE MAC	5/25/2017	5/25/2022	2.18	50,000,000	50,000,000	50,000,000	49,338,500
Federal Agencies	3133EHLY7	FEDERAL FARM CREDIT BANK	6/6/2017	6/2/2022	1.88	50,000,000	50,059,250	50,039,576	48,877,000
Federal Agencies	3133EHLY7	FEDERAL FARM CREDIT BANK	6/9/2017	6/2/2022	1.88	50,000,000	49,997,500	49,998,327	48,877,000
Federal Agencies	3133EJRN1	FEDERAL FARM CREDIT BANK	6/13/2018	6/13/2022	3.00	25,000,000	24,957,500	24,964,278	25,023,250
Federal Agencies	3134GBF72	FREDDIE MAC	9/15/2017	6/15/2022	2.01	50,000,000	50,000,000	50,000,000	48,972,500
Federal Agencies	3134GBN73	FREDDIE MAC	10/2/2017	7/1/2022	2.07	50,000,000	50,000,000	50,000,000	49,219,500
Federal Agencies	3134GBW99	FREDDIE MAC	11/1/2017	7/1/2022	2.24	100,000,000	100,000,000	100,000,000	98,820,000
Federal Agencies	3134GBXU1	FREDDIE MAC	7/27/2017	7/27/2022	2.25	31,575,000	31,575,000	31,575,000	31,051,487
Federal Agencies	3130AC7E8	FEDERAL HOME LOAN BANK	9/1/2017	9/1/2022	2.17	50,000,000	50,000,000	50,000,000	48,982,000
Federal Agencies	3134GSNN1	FREDDIE MAC	6/14/2018	6/14/2023	3.27	100,000,000	100,000,000	100,000,000	100,023,000
Federal Agencies	3134GSPD1	FREDDIE MAC	6/14/2018	6/14/2023	3.32	50,000,000	50,000,000	50,000,000	50,013,000
Federal Agencies	3134GSUA1	FREDDIE MAC	8/16/2018	8/16/2023	3.38	50,000,000	50,000,000	50,000,000	50,005,500
Federal Agencies	3134GST47	FREDDIE MAC	1/30/2019	1/29/2024	3.10	17,775,000	17,765,866	17,764,347	17,781,221
Federal Agencies	3130AFR90	FEDERAL HOME LOAN BANK	1/30/2019	1/30/2024	3.25	50,000,000	50,000,000	50,000,000	50,015,000
Subtotals					**2.12**	**$ 5,200,035,000**	**$ 5,195,463,743**	**$ 5,197,731,410**	**$ 5,170,529,682**
State/Local Agencies	13063DAB4	CALIFORNIA ST	4/27/2017	4/1/2019	1.59	$ 23,000,000	$ 23,000,000	$ 23,000,000	$ 22,960,210
State/Local Agencies	13063CKL3	CALIFORNIA ST	10/27/2016	5/1/2019	2.25	4,750,000	4,879,058	4,762,539	4,745,060
State/Local Agencies	91412GL60	UNIV OF CALIFORNIA CA REVENUE	6/30/2016	5/15/2019	1.23	2,000,000	2,000,000	2,000,000	1,992,180
State/Local Agencies	91412GSB2	UNIV OF CALIFORNIA CA REVENUE	10/5/2015	7/1/2019	1.80	4,180,000	4,214,443	4,183,785	4,165,746
State/Local Agencies	91412GSB2	UNIV OF CALIFORNIA CA REVENUE	10/2/2015	7/1/2019	1.80	16,325,000	16,461,640	16,339,982	16,269,332
State/Local Agencies	6055804W6	MISSISSIPPI ST	4/23/2015	10/1/2019	6.09	8,500,000	10,217,510	8,756,250	8,688,870
State/Local Agencies	977100CW4	WISCONSIN ST GEN FUND ANNUAL	8/16/2016	5/1/2020	1.45	18,000,000	18,000,000	18,000,000	17,714,520
State/Local Agencies	13063DGA0	CALIFORNIA ST	4/25/2018	4/1/2021	2.80	33,000,000	33,001,320	33,000,973	33,110,220
State/Local Agencies	13066YTY5	CALIFORNIA ST DEPT OF WTR RES	2/6/2017	5/1/2021	1.71	28,556,228	28,073,056	28,299,787	27,934,844
State/Local Agencies	91412GF59	UNIV OF CALIFORNIA CA REVENUE	8/9/2016	5/15/2021	1.91	1,769,000	1,810,695	1,788,985	1,740,466
Subtotals					**2.22**	**$ 140,080,228**	**$ 141,657,723**	**$ 140,132,302**	**$ 139,321,448**
Public Time Deposits	PP041QSK8	BRIDGE BANK	12/26/2018	3/26/2019	2.43	$ 10,000,000	$ 10,000,000	$ 10,000,000	$ 10,000,000
Public Time Deposits	PP9J42KU2	PREFERRED BANK LA CALIF	5/16/2018	5/16/2019	2.59	240,000	240,000	240,000	240,000
Public Time Deposits	PP9N2NML7	SAN FRANCISCO CREDIT UNION	12/5/2018	6/4/2019	2.43	10,000,000	10,000,000	10,000,000	10,000,000
Public Time Deposits	PP041MX54	BANK OF SAN FRANCISCO	12/11/2018	6/11/2019	2.58	5,000,000	5,000,000	5,000,000	5,000,000
Public Time Deposits	PP9N20S31	BRIDGE BANK	12/24/2018	6/24/2019	2.57	10,000,000	10,000,000	10,000,000	10,000,000
Subtotals					**2.49**	**$ 35,240,000**	**$ 35,240,000**	**$ 35,240,000**	**$ 35,240,000**

Investment Inventory
Pooled Fund

Type of Investment	CUSIP	Issuer Name	Settle Date	Maturity Date	Coupon	Par Value	Book Value	Amortized Book Value	Market Value
Negotiable CDs	89114MBD8	TORONTO DOMINION BANK NY	8/14/2018	2/15/2019	2.43	$ 15,000,000	$ 15,000,000	$ 15,000,000	$ 15,000,205
Negotiable CDs	96121T7B8	WESTPAC BANKING CORP NY	3/5/2018	3/5/2019	2.84	50,000,000	50,000,000	50,000,000	50,021,596
Negotiable CDs	06427KSW8	BANK OF MONTREAL CHICAGO	3/9/2017	3/8/2019	3.05	27,838,000	27,838,000	27,838,000	27,856,516
Negotiable CDs	78012UCE3	ROYAL BANK OF CANADA NY	3/28/2018	4/1/2019	3.00	50,000,000	50,000,000	50,000,000	50,052,329
Negotiable CDs	06417GR42	BANK OF NOVA SCOTIA HOUSTON	4/4/2018	4/3/2019	2.97	50,000,000	50,000,000	50,000,000	50,051,716
Negotiable CDs	06370RCZ0	BANK OF MONTREAL CHICAGO	7/6/2018	4/24/2019	2.60	50,000,000	50,000,000	50,000,000	50,022,269
Negotiable CDs	25215FDX9	DEXIA CREDIT LOCAL SA NY	8/9/2018	4/24/2019	2.57	50,000,000	50,000,000	50,000,000	50,019,536
Negotiable CDs	89113X3M4	TORONTO DOMINION BANK NY	6/20/2018	4/24/2019	2.65	50,000,000	50,000,000	50,000,000	50,027,602
Negotiable CDs	78012UGB5	ROYAL BANK OF CANADA NY	8/20/2018	4/29/2019	2.53	50,000,000	50,000,000	50,000,000	50,016,124
Negotiable CDs	89114MBQ9	TORONTO DOMINION BANK NY	8/16/2018	4/29/2019	2.56	50,000,000	50,000,000	50,000,000	50,019,648
Negotiable CDs	78012UDL6	ROYAL BANK OF CANADA NY	5/2/2018	5/1/2019	2.89	35,000,000	35,000,000	35,000,000	35,045,306
Negotiable CDs	78012UGF6	ROYAL BANK OF CANADA NY	8/23/2018	5/6/2019	2.55	25,000,000	25,000,000	25,000,000	24,996,769
Negotiable CDs	78012UDR3	ROYAL BANK OF CANADA NY	5/10/2018	5/13/2019	2.69	40,000,000	40,000,000	40,000,000	40,007,754
Negotiable CDs	78012UDV4	ROYAL BANK OF CANADA NY	5/23/2018	5/24/2019	2.66	25,000,000	25,000,000	25,000,000	25,003,266
Negotiable CDs	89113XX41	TORONTO DOMINION BANK NY	5/23/2018	5/24/2019	2.68	25,000,000	25,000,000	25,000,000	25,004,795
Negotiable CDs	78012UDX0	ROYAL BANK OF CANADA NY	6/4/2018	6/4/2019	2.81	50,000,000	50,000,000	50,000,000	50,040,587
Negotiable CDs	25215FDL5	DEXIA CREDIT LOCAL SA NY	6/7/2018	6/7/2019	2.79	40,000,000	40,000,000	40,000,000	40,031,221
Negotiable CDs	25215FDY7	DEXIA CREDIT LOCAL SA NY	8/10/2018	6/14/2019	2.62	50,000,000	50,000,000	50,000,000	50,003,218
Negotiable CDs	89114MAX5	TORONTO DOMINION BANK NY	8/13/2018	6/14/2019	2.61	50,000,000	50,000,000	50,000,000	50,001,501
Negotiable CDs	06370RHT9	BANK OF MONTREAL CHICAGO	9/7/2018	6/24/2019	2.64	40,000,000	40,000,000	40,000,000	40,006,728
Negotiable CDs	78012UGS8	ROYAL BANK OF CANADA NY	8/31/2018	6/24/2019	2.65	50,000,000	50,000,000	50,000,000	50,010,107
Negotiable CDs	06370RMN6	BANK OF MONTREAL CHICAGO	10/15/2018	7/1/2019	2.76	50,000,000	50,000,000	50,000,000	50,035,007
Negotiable CDs	25215FEF7	DEXIA CREDIT LOCAL SA NY	11/14/2018	7/1/2019	2.82	50,000,000	50,000,000	50,000,000	50,048,614
Negotiable CDs	89114MAY3	TORONTO DOMINION BANK NY	8/13/2018	7/1/2019	2.63	50,000,000	50,000,000	50,000,000	50,005,788
Negotiable CDs	89114MCE5	TORONTO DOMINION BANK NY	8/21/2018	7/1/2019	2.64	50,000,000	50,000,000	50,000,000	50,008,150
Negotiable CDs	89114MKR7	TORONTO DOMINION BANK NY	11/5/2018	7/1/2019	2.93	50,000,000	50,000,000	50,000,000	50,070,919
Negotiable CDs	63873NB67	NATIXIS NY BRANCH	12/19/2018	7/22/2019	2.98	25,000,000	25,000,000	25,000,000	25,047,299
Negotiable CDs	06370RSD2	BANK OF MONTREAL CHICAGO	12/19/2018	7/25/2019	2.88	50,000,000	50,000,000	50,000,000	50,072,295
Negotiable CDs	78012ULA1	ROYAL BANK OF CANADA NY	12/12/2018	8/30/2019	2.94	50,000,000	50,000,000	50,000,000	50,077,662
Negotiable CDs	78012UKW4	ROYAL BANK OF CANADA NY	12/7/2018	10/25/2019	3.01	50,000,000	50,000,000	50,000,000	50,122,832
Negotiable CDs	89114MPG6	TORONTO DOMINION BANK NY	12/6/2018	10/25/2019	3.06	25,000,000	25,000,000	25,000,000	25,070,430
Negotiable CDs	89114MLP0	TORONTO DOMINION BANK NY	11/9/2018	10/28/2019	3.08	50,000,000	50,000,000	50,000,000	50,147,475
Negotiable CDs	06370RNN5	BANK OF MONTREAL CHICAGO	11/6/2018	11/6/2019	3.10	50,000,000	50,000,000	50,000,000	50,136,566
Negotiable CDs	96130AAN8	WESTPAC BANKING CORP NY	11/8/2018	11/8/2019	3.10	50,000,000	50,000,000	50,000,000	50,137,704
Negotiable CDs	96130AAT5	WESTPAC BANKING CORP NY	11/14/2018	11/14/2019	3.08	50,000,000	50,000,000	50,000,000	50,133,373
Negotiable CDs	89114MME4	TORONTO DOMINION BANK NY	11/19/2018	11/19/2019	3.10	25,000,000	25,000,000	25,000,000	25,072,000
Negotiable CDs	78012UKB0	ROYAL BANK OF CANADA NY	11/26/2018	11/25/2019	3.07	50,000,000	50,000,000	50,000,000	50,135,475
Negotiable CDs	96130AAZ1	WESTPAC BANKING CORP NY	11/29/2018	11/27/2019	3.06	50,000,000	50,000,000	50,000,000	50,132,592
Negotiable CDs	06370RPG8	BANK OF MONTREAL CHICAGO	12/3/2018	12/3/2019	3.12	50,000,000	50,000,000	50,000,000	50,160,381
Negotiable CDs	89114MPF8	TORONTO DOMINION BANK NY	12/6/2018	12/6/2019	3.10	50,000,000	50,000,000	50,000,000	50,153,862
Negotiable CDs	96130ABE7	WESTPAC BANKING CORP NY	12/7/2018	12/6/2019	3.05	50,000,000	50,000,000	50,000,000	50,133,079
Negotiable CDs	06370RQD4	BANK OF MONTREAL CHICAGO	12/6/2018	12/9/2019	3.06	50,000,000	50,000,000	50,000,000	50,138,459
Negotiable CDs	06370RQZ5	BANK OF MONTREAL CHICAGO	12/10/2018	12/11/2019	3.06	50,000,000	50,000,000	50,000,000	50,139,720
Negotiable CDs	63873NE49	NATIXIS NY BRANCH	1/11/2019	1/6/2020	3.00	50,000,000	50,000,000	50,000,000	50,126,824
Subtotals					**2.86**	**$ 1,947,838,000**	**$ 1,947,838,000**	**$ 1,947,838,000**	**$ 1,950,545,289**

Investment Inventory

Pooled Fund

Type of Investment	CUSIP	Issuer Name	Settle Date	Maturity Date	Coupon	Par Value	Book Value	Amortized Book Value	Market Value
Commercial Paper	63873KP19	NATIXIS NY BRANCH	1/31/2019	2/1/2019	0.00	$ 25,000,000	$ 24,998,361	$ 25,000,000	$ 25,000,000
Commercial Paper	63873KP19	NATIXIS NY BRANCH	1/31/2019	2/1/2019	0.00	50,000,000	49,996,722	50,000,000	50,000,000
Commercial Paper	63873KP19	NATIXIS NY BRANCH	1/31/2019	2/1/2019	0.00	50,000,000	49,996,722	50,000,000	50,000,000
Commercial Paper	89116FP46	TORONTO DOMINION HDG USA	8/8/2018	2/4/2019	0.00	15,000,000	14,818,500	14,996,975	14,996,875
Commercial Paper	25214PH22	DEXIA CREDIT LOCAL SA NY	5/15/2018	2/5/2019	0.00	50,000,000	49,091,167	49,986,333	49,986,111
Commercial Paper	89233HP65	TOYOTA MOTOR CREDIT CORP	7/3/2018	2/6/2019	0.00	30,000,000	29,551,283	29,989,708	29,989,583
Commercial Paper	03785EPF5	APPLE INC	8/17/2018	2/15/2019	0.00	45,000,000	44,467,650	44,959,050	44,956,250
Commercial Paper	62479MPL1	MUFG BANK LTD NY	6/8/2018	2/20/2019	0.00	30,000,000	29,456,017	29,959,783	29,960,417
Commercial Paper	25214PJV6	DEXIA CREDIT LOCAL SA NY	7/18/2018	2/22/2019	0.00	32,000,000	31,517,227	31,953,707	31,953,333
Commercial Paper	62479MPN7	MUFG BANK LTD NY	8/14/2018	2/22/2019	0.00	15,000,000	14,805,600	14,978,738	14,978,125
Commercial Paper	62479MQR7	MUFG BANK LTD NY	8/14/2018	3/25/2019	0.00	15,000,000	14,770,496	14,946,483	14,945,833
Commercial Paper	25214PKT9	DEXIA CREDIT LOCAL SA NY	8/14/2018	4/1/2019	0.00	15,000,000	14,763,292	14,939,279	14,938,542
Commercial Paper	62479MTR4	MUFG BANK LTD NY	10/15/2018	6/25/2019	0.00	40,000,000	39,238,189	39,566,400	39,560,000
Commercial Paper	89233HTR5	TOYOTA MOTOR CREDIT CORP	10/15/2018	6/25/2019	0.00	50,000,000	49,054,764	49,462,000	49,450,000
Commercial Paper	62479MTS2	MUFG BANK LTD NY	11/6/2018	6/26/2019	0.00	50,000,000	49,075,222	49,422,014	49,446,181
Commercial Paper	62479MU19	MUFG BANK LTD NY	11/13/2018	7/1/2019	0.00	50,000,000	49,070,417	49,393,750	49,427,084
Commercial Paper	62479MU19	MUFG BANK LTD NY	11/15/2018	7/1/2019	0.00	50,000,000	49,081,667	49,395,833	49,427,084
Commercial Paper	62479MU19	MUFG BANK LTD NY	11/19/2018	7/1/2019	0.00	50,000,000	49,097,778	49,395,833	49,427,084
Commercial Paper	63873KU13	NATIXIS NY BRANCH	11/26/2018	7/1/2019	0.00	25,000,000	24,567,507	24,701,042	24,713,542
Commercial Paper	89233HU10	TOYOTA MOTOR CREDIT CORPOR/	10/11/2018	7/1/2019	0.00	50,000,000	49,013,750	49,437,500	49,427,084
Commercial Paper	89233HU10	TOYOTA MOTOR CREDIT CORP	11/16/2018	7/1/2019	0.00	50,000,000	49,117,222	49,416,667	49,427,084
Commercial Paper	89233HU10	TOYOTA MOTOR CREDIT CORP	11/26/2018	7/1/2019	0.00	50,000,000	49,147,069	49,410,417	49,427,084
Commercial Paper	62479MU84	MUFG BANK LTD NY	11/28/2018	7/8/2019	0.00	40,000,000	39,284,667	39,494,111	39,520,278
Commercial Paper	62479MU84	MUFG BANK LTD NY	11/27/2018	7/8/2019	0.00	50,000,000	49,101,806	49,367,639	49,400,347
Commercial Paper	62479MUA9	MUFG BANK LTD NY	12/7/2018	7/10/2019	0.00	30,000,000	29,485,792	29,619,725	29,635,625
Commercial Paper	63873KUN5	NATIXIS NY BRANCH	12/11/2018	7/22/2019	0.00	50,000,000	49,095,611	49,306,500	49,346,875
Commercial Paper	62479MUQ4	MUFG BANK LTD NY	12/27/2018	7/24/2019	0.00	40,000,000	39,335,844	39,450,244	39,471,389
Commercial Paper	25214PNB5	DEXIA CREDIT LOCAL SA NY	1/3/2019	8/5/2019	0.00	15,000,000	14,753,900	14,787,250	14,783,396
Commercial Paper	25214PNC3	DEXIA CREDIT LOCAL SA NY	1/3/2019	8/6/2019	0.00	40,000,000	39,340,667	39,429,600	39,419,267
Commercial Paper	62479MV75	MUFG BANK LTD NY	1/29/2019	8/7/2019	0.00	50,000,000	49,287,500	49,298,750	49,270,181
Subtotals					**0.00**	**$ 1,152,000,000**	**$ 1,134,382,407**	**$ 1,142,065,332**	**$ 1,142,284,650**
Medium Term Notes	037833AQ3	APPLE INC	5/31/2018	5/6/2019	2.10	$ 18,813,000	$ 18,765,779	$ 18,799,945	$ 18,788,731
Medium Term Notes	742718EG0	THE PROCTER & GAMBLE CO	6/20/2018	11/1/2019	1.90	9,650,000	9,557,071	9,599,159	9,572,800
Medium Term Notes	89236TEJ0	TOYOTA MOTOR CREDIT CORP	1/11/2018	1/10/2020	2.20	20,000,000	19,982,200	19,991,625	19,897,200
Medium Term Notes	89236TFQ3	TOYOTA MOTOR CREDIT CORP	1/8/2019	1/8/2021	3.05	5,000,000	4,997,000	4,997,099	5,035,750
Subtotals					**2.19**	**$ 53,463,000**	**$ 53,302,050**	**$ 53,387,827**	**$ 53,294,481**
Money Market Funds	262006208	DREYFUS GOVERN CASH MGMT-I	8/3/2018	2/1/2019	2.31	$ 10,126,262	$ 10,126,262	$ 10,126,262	$ 10,126,262
Money Market Funds	608919718	FEDERATED GOVERNMENT OBL-PI	8/3/2018	2/1/2019	2.30	19,335,657	19,335,657	19,335,657	19,335,657
Money Market Funds	09248U718	BLACKROCK LIQ INST GOV FUND	1/15/2013	2/1/2019	2.27	10,184,227	10,184,227	10,184,227	10,184,227
Money Market Funds	31607A703	FIDELITY INST GOV FUND	11/4/2015	2/1/2019	2.33	185,881,835	185,881,835	185,881,835	185,881,835
Money Market Funds	61747C707	MORGAN STANLEY INST GOVT FUI	12/31/2012	2/1/2019	2.31	135,655,096	135,655,096	135,655,096	135,655,096
Subtotals					**2.32**	**$ 361,183,077**	**$ 361,183,077**	**$ 361,183,077**	**$ 361,183,077**

Investment Inventory
Pooled Fund

Type of Investment	CUSIP	Issuer Name	Settle Date	Maturity Date	Coupon	Par Value	Book Value	Amortized Book Value	Market Value
Supranationals	45950VLM6	INTERNATIONAL FINANCE CORP	3/1/2018	3/1/2019	2.52	$ 50,000,000	$ 50,000,000	$ 50,000,000	$ 50,000,500
Supranationals	458182DX7	INTER-AMERICAN DEVEL BK	6/11/2018	5/13/2019	1.00	5,000,000	4,935,000	4,980,461	4,978,450
Supranationals	458182DX7	INTER-AMERICAN DEVEL BK	6/6/2018	5/13/2019	1.00	14,270,000	14,084,710	14,215,119	14,208,496
Supranationals	458182DX7	INTER-AMERICAN DEVEL BK	6/1/2018	5/13/2019	1.00	20,557,000	20,306,410	20,483,851	20,468,399
Supranationals	459058EV1	INTL BK RECON & DEVELOP	6/28/2018	7/26/2019	1.25	10,000,000	9,870,700	9,942,424	9,936,600
Supranationals	4581X0BY3	INTER-AMERICAN DEVEL BK	11/5/2018	9/12/2019	1.13	44,716,000	44,175,216	44,275,130	44,288,962
Supranationals	459058FQ1	INTL BK RECON & DEVELOP	11/6/2017	9/30/2019	1.20	50,000,000	49,483,894	49,820,517	49,507,500
Supranationals	45905UZJ6	INTL BK RECON & DEVELOP	6/2/2017	10/25/2019	1.30	25,000,000	24,845,000	24,952,880	24,724,250
Supranationals	45905UZJ6	INTL BK RECON & DEVELOP	6/2/2017	10/25/2019	1.30	29,300,000	29,118,340	29,244,775	28,976,821
Supranationals	459058FZ1	INTL BK RECON & DEVELOP	3/21/2017	4/21/2020	1.88	50,000,000	49,956,500	49,982,824	49,577,500
Supranationals	4581X0CX4	INTER-AMERICAN DEVEL BK	5/17/2018	5/12/2020	1.63	10,000,000	9,789,360	9,864,796	9,884,100
Supranationals	4581X0CX4	INTER-AMERICAN DEVEL BK	4/12/2017	5/12/2020	1.63	25,000,000	24,940,750	24,975,479	24,710,250
Supranationals	459058GA5	INTL BK RECON & DEVELOP	8/29/2017	9/4/2020	1.63	50,000,000	49,989,500	49,994,464	49,268,500
Supranationals	45905UQ80	INTL BK RECON & DEVELOP	11/9/2017	11/9/2020	1.95	50,000,000	49,965,000	49,979,339	49,406,000
Supranationals	45905UQ80	INTL BK RECON & DEVELOP	12/20/2017	11/9/2020	1.95	50,000,000	49,718,500	49,827,364	49,406,000
Supranationals	459058GM9	INTL BK RECON & DEVELOP	12/28/2018	12/28/2020	3.00	50,000,000	50,000,000	50,000,000	50,048,500
Supranationals	45950KCM0	INTERNATIONAL FINANCE CORP	1/25/2018	1/25/2021	2.25	50,000,000	49,853,000	49,902,894	49,680,500
Supranationals	4581X0DB1	INTER-AMERICAN DEVEL BK	4/19/2018	4/19/2021	2.63	45,000,000	44,901,000	44,927,015	45,031,950
Supranationals	4581X0DB1	INTER-AMERICAN DEVEL BK	5/16/2018	4/19/2021	2.63	50,000,000	49,693,972	49,768,689	50,035,500
Supranationals	45950KCJ7	INTERNATIONAL FINANCE CORP	5/23/2018	7/20/2021	1.13	12,135,000	11,496,942	11,637,381	11,722,167
Supranationals	459058GH0	INTL BK RECON & DEVELOP	7/25/2018	7/23/2021	2.75	50,000,000	49,883,000	49,903,427	50,247,000
Supranationals	45905UW59	INTL BK RECON & DEVELOP	9/13/2018	9/13/2021	3.05	50,000,000	49,985,000	49,986,930	50,020,000
Supranationals	45905UW67	INTL BK RECON & DEVELOP	11/29/2018	9/28/2021	3.13	22,500,000	22,585,391	22,468,339	22,763,700
Subtotals					**2.06**	**$ 813,478,000**	**$ 809,577,184**	**$ 811,134,099**	**$ 808,891,646**
Grand Totals					**1.94**	**$ 10,613,317,305**	**$ 10,578,323,926**	**$ 10,594,036,872**	**$ 10,561,797,424**

Monthly Investment Earnings
Pooled Fund

For month ended January 31, 2019

Type of Investment	CUSIP	Issuer Name	Par Value	Coupon	YTM[1]	Settle Date	Maturity Date	Earned Interest	Amort. Expense	Realized Gain/(Loss)	Earned Income /Net Earnings
U.S. Treasuries	912796UJ6	TREASURY BILL	$ -	0.00	2.26	12/28/18	1/15/19	$ -	$ 9,417	$ 168	$ 9,585
U.S. Treasuries	912828N63	US TREASURY	-	1.13	2.16	6/25/18	1/15/19	6,420	5,871	-	12,291
U.S. Treasuries	912828V56	US TREASURY	-	1.13	2.03	2/15/18	1/31/19	45,856	36,496	-	82,352
U.S. Treasuries	912796UM9	TREASURY BILL	50,000,000	0.00	2.31	1/31/19	2/5/19	-	3,211	-	3,211
U.S. Treasuries	912828P53	US TREASURY	50,000,000	0.75	2.10	4/12/18	2/15/19	31,590	56,432	-	88,022
U.S. Treasuries	912796PT0	TREASURY BILL	50,000,000	0.00	2.06	3/1/18	2/28/19	-	86,972	-	86,972
U.S. Treasuries	912828Q52	US TREASURY	50,000,000	0.88	2.25	5/10/18	4/15/19	37,260	57,341	-	94,601
U.S. Treasuries	912828Q52	US TREASURY	50,000,000	0.88	2.31	6/7/18	4/15/19	37,260	60,159	-	97,418
U.S. Treasuries	912828R44	US TREASURY	35,000,000	0.88	2.31	5/10/18	5/15/19	26,226	41,925	-	68,150
U.S. Treasuries	912796QH5	TREASURY BILL	60,000,000	0.00	2.33	5/24/18	5/23/19	-	117,542	-	117,542
U.S. Treasuries	912828XS4	US TREASURY	50,000,000	1.25	1.36	6/20/17	5/31/19	53,228	4,520	-	57,748
U.S. Treasuries	912796QM4	TREASURY BILL	40,000,000	0.00	2.45	10/1/18	6/20/19	-	82,753	-	82,753
U.S. Treasuries	912828T59	US TREASURY	25,000,000	1.00	2.47	5/18/18	10/15/19	21,291	30,567	-	51,859
U.S. Treasuries	912828T59	US TREASURY	50,000,000	1.00	2.51	8/15/18	10/15/19	42,582	62,963	-	105,545
U.S. Treasuries	9128283N8	US TREASURY	50,000,000	1.88	2.01	1/16/18	12/31/19	80,283	5,597	-	85,880
U.S. Treasuries	912828XU9	US TREASURY	50,000,000	1.50	1.51	6/20/17	6/15/20	63,874	499	-	64,373
U.S. Treasuries	912828XU9	US TREASURY	100,000,000	1.50	2.67	12/20/18	6/15/20	127,747	96,340	-	224,087
U.S. Treasuries	912828S27	US TREASURY	25,000,000	1.13	1.64	8/15/17	6/30/21	24,085	10,526	-	34,611
U.S. Treasuries	912828T67	US TREASURY	50,000,000	1.25	1.43	11/10/16	10/31/21	53,522	7,268	-	60,790
U.S. Treasuries	912828U65	US TREASURY	100,000,000	1.75	1.90	12/13/16	11/30/21	149,038	11,755	-	160,794
U.S. Treasuries	912828XW5	US TREASURY	25,000,000	1.75	1.77	8/15/17	6/30/22	37,465	391	-	37,857
Subtotals			**$ 910,000,000**					**$ 837,727**	**$ 788,545**	**$ 168**	**$ 1,626,440**
Federal Agencies	3133EGDM4	FEDERAL FARM CREDIT BANK	$ -	2.51	2.51	6/2/16	1/2/19	$ 1,743	$ -	$ -	$ 1,743
Federal Agencies	313384AC3	FED HOME LN DISCOUNT NT	-	0.00	2.35	1/2/19	1/3/19	-	3,264	-	3,264
Federal Agencies	313384AC3	FED HOME LN DISCOUNT NT	-	0.00	2.35	1/2/19	1/3/19	-	3,264	-	3,264
Federal Agencies	313384AC3	FED HOME LN DISCOUNT NT	-	0.00	2.35	1/2/19	1/3/19	-	3,264	-	3,264
Federal Agencies	313384AC3	FED HOME LN DISCOUNT NT	-	0.00	2.35	1/2/19	1/3/19	-	3,264	-	3,264
Federal Agencies	313384AC3	FED HOME LN DISCOUNT NT	-	0.00	2.35	1/2/19	1/3/19	-	3,264	-	3,264
Federal Agencies	3133EG2V6	FEDERAL FARM CREDIT BANK	-	2.40	2.40	1/3/17	1/3/19	3,332	-	-	3,332
Federal Agencies	313384AD1	FED HOME LN DISCOUNT NT	-	0.00	2.35	1/3/19	1/4/19	-	3,264	-	3,264
Federal Agencies	313384AD1	FED HOME LN DISCOUNT NT	-	0.00	2.35	1/3/19	1/4/19	-	3,264	-	3,264
Federal Agencies	313384AD1	FED HOME LN DISCOUNT NT	-	0.00	2.35	1/3/19	1/4/19	-	3,264	-	3,264
Federal Agencies	313384AD1	FED HOME LN DISCOUNT NT	-	0.00	2.35	1/3/19	1/4/19	-	2,938	-	2,938
Federal Agencies	313384AJ8	FED HOME LN DISCOUNT NT	-	0.00	2.33	12/13/18	1/9/19	-	25,889	-	25,889
Federal Agencies	3130AAE46	FEDERAL HOME LOAN BANK	-	1.25	2.12	4/4/18	1/16/19	4,307	2,905	-	7,212
Federal Agencies	3134GAH23	FREDDIE MAC	-	2.00	2.00	1/17/17	1/17/19	22,222	-	-	22,222
Federal Agencies	313384AT6	FED HOME LN DISCOUNT NT	-	0.00	2.29	1/16/19	1/18/19	-	4,389	-	4,389
Federal Agencies	3130A8VZ3	FEDERAL HOME LOAN BANK	-	1.05	1.05	7/28/16	1/25/19	17,500	-	-	17,500
Federal Agencies	3132X0EK3	FARMER MAC	-	2.59	2.59	1/25/16	1/25/19	43,165	-	-	43,165
Federal Agencies	3134GAS39	FREDDIE MAC	25,000,000	2.00	2.00	2/1/17	2/1/19	41,667	-	-	41,667
Federal Agencies	3132X0R94	FARMER MAC	25,000,000	2.14	2.14	4/5/18	2/15/19	44,583	-	-	44,583
Federal Agencies	313384CC1	FED HOME LN DISCOUNT NT	50,000,000	0.00	2.36	1/29/19	2/20/19	-	9,833	-	9,833
Federal Agencies	313384CE7	FED HOME LN DISCOUNT NT	10,600,000	0.00	2.36	1/29/19	2/22/19	-	2,085	-	2,085
Federal Agencies	3133EGBU8	FEDERAL FARM CREDIT BANK	50,000,000	2.69	2.69	5/25/16	2/25/19	115,479	-	-	115,479
Federal Agencies	3130AAXX1	FEDERAL HOME LOAN BANK	9,500,000	1.38	2.16	4/6/18	3/18/19	10,885	6,273	-	17,158
Federal Agencies	3130AAXX1	FEDERAL HOME LOAN BANK	50,000,000	1.38	2.18	4/6/18	3/18/19	57,292	33,934	-	91,226
Federal Agencies	3132X0ED9	FARMER MAC	40,000,000	2.87	2.87	1/19/16	3/19/19	98,981	-	-	98,981
Federal Agencies	3133EJHG7	FEDERAL FARM CREDIT BANK	25,000,000	2.13	2.16	3/22/18	3/22/19	44,375	590	-	44,965
Federal Agencies	3133EJHG7	FEDERAL FARM CREDIT BANK	25,000,000	2.13	2.16	3/22/18	3/22/19	44,375	590	-	44,965
Federal Agencies	3134GBFR8	FREDDIE MAC	25,000,000	1.40	1.40	4/5/17	4/5/19	29,167	-	-	29,167
Federal Agencies	3137EADZ9	FREDDIE MAC	19,979,000	1.13	2.29	5/10/18	4/15/19	18,730	19,473	-	38,203
Federal Agencies	3133EF7L5	FEDERAL FARM CREDIT BANK	5,900,000	1.17	2.35	6/6/18	5/16/19	5,753	5,849	-	11,601

Monthly Investment Earnings
Pooled Fund

Type of Investment	CUSIP	Issuer Name	Par Value	Coupon	YTM[1]	Settle Date	Maturity Date	Earned Interest	Amort. Expense	Realized Gain/(Loss)	Earned Income /Net Earnings
Federal Agencies	3133EGAV7	FEDERAL FARM CREDIT BANK	50,350,000	1.17	1.85	12/5/17	5/17/19	49,091	28,675	-	77,766
Federal Agencies	3136G3QP3	FANNIE MAE	10,000,000	1.25	1.25	5/24/16	5/24/19	10,417	-	-	10,417
Federal Agencies	3130ABF92	FEDERAL HOME LOAN BANK	30,000,000	1.38	1.47	5/12/17	5/28/19	34,375	2,356	-	36,731
Federal Agencies	3133EHLG6	FEDERAL FARM CREDIT BANK	27,000,000	1.32	1.35	5/30/17	5/30/19	29,700	688	-	30,388
Federal Agencies	3130AEFB1	FEDERAL HOME LOAN BANK	12,450,000	2.25	2.34	6/6/18	6/6/19	23,344	920	-	24,264
Federal Agencies	3133EHMR1	FEDERAL FARM CREDIT BANK	50,000,000	1.38	1.38	6/12/17	6/12/19	57,292	-	-	57,292
Federal Agencies	313379EE5	FEDERAL HOME LOAN BANK	25,000,000	1.63	1.41	6/9/17	6/14/19	33,854	(4,460)	-	29,394
Federal Agencies	313379EE5	FEDERAL HOME LOAN BANK	25,000,000	1.63	1.38	8/23/17	6/14/19	33,854	(5,108)	-	28,746
Federal Agencies	313379EE5	FEDERAL HOME LOAN BANK	35,750,000	1.63	1.43	8/9/17	6/14/19	48,411	(5,788)	-	42,624
Federal Agencies	3134G9QW0	FREDDIE MAC	50,000,000	1.28	1.28	6/14/16	6/14/19	53,333	-	-	53,333
Federal Agencies	3130AC7C2	FEDERAL HOME LOAN BANK	15,000,000	1.40	1.37	8/23/17	7/1/19	17,500	(247)	-	17,253
Federal Agencies	3133EGJX4	FEDERAL FARM CREDIT BANK	35,370,000	1.08	2.46	5/23/18	7/5/19	31,833	40,553	-	72,386
Federal Agencies	3134G9YR2	FREDDIE MAC	50,000,000	2.25	2.25	7/12/16	7/12/19	89,931	-	-	89,931
Federal Agencies	3130A8Y72	FEDERAL HOME LOAN BANK	5,000,000	0.88	2.37	4/19/18	8/5/19	3,646	6,220	-	9,866
Federal Agencies	3130A8Y72	FEDERAL HOME LOAN BANK	6,000,000	0.88	2.44	5/10/18	8/5/19	4,375	7,778	-	12,153
Federal Agencies	3130A8Y72	FEDERAL HOME LOAN BANK	24,000,000	0.88	2.37	4/19/18	8/5/19	17,500	29,776	-	47,276
Federal Agencies	3130A8Y72	FEDERAL HOME LOAN BANK	36,010,000	0.88	2.61	9/27/18	8/5/19	26,257	52,094	-	78,352
Federal Agencies	3133EGED3	FEDERAL FARM CREDIT BANK	25,000,000	2.70	2.70	6/9/16	8/9/19	57,352	-	-	57,352
Federal Agencies	3133EGED3	FEDERAL FARM CREDIT BANK	25,000,000	2.70	2.70	6/9/16	8/9/19	57,352	-	-	57,352
Federal Agencies	3134G94F1	FREDDIE MAC	25,000,000	1.50	1.50	8/15/16	8/15/19	31,250	-	-	31,250
Federal Agencies	3133EGX67	FEDERAL FARM CREDIT BANK	50,000,000	2.62	2.62	12/20/16	8/20/19	112,067	-	-	112,067
Federal Agencies	3135G0P23	FANNIE MAE	20,000,000	1.25	1.25	8/30/16	8/23/19	20,833	-	-	20,833
Federal Agencies	3136G3X59	FANNIE MAE	25,000,000	1.10	1.10	8/23/16	8/23/19	22,917	-	-	22,917
Federal Agencies	3134G9GS0	FREDDIE MAC	25,000,000	1.25	1.25	5/26/16	8/26/19	26,042	-	-	26,042
Federal Agencies	3134GAFY5	FREDDIE MAC	8,450,000	1.30	1.82	11/28/17	8/28/19	9,154	3,654	-	12,808
Federal Agencies	3134GAHR8	FREDDIE MAC	25,000,000	2.00	2.00	9/23/16	9/23/19	41,667	-	-	41,667
Federal Agencies	3135G0Q30	FANNIE MAE	50,000,000	1.18	1.18	10/21/16	9/27/19	49,167	-	-	49,167
Federal Agencies	3132X0KH3	FARMER MAC	50,000,000	2.81	2.81	10/6/16	10/1/19	120,857	-	-	120,857
Federal Agencies	3133EJF79	FEDERAL FARM CREDIT BANK	36,000,000	2.65	2.68	10/10/18	10/10/19	79,500	1,040	-	80,540
Federal Agencies	3133EGXK6	FEDERAL FARM CREDIT BANK	20,000,000	1.12	1.86	12/1/17	10/11/19	18,667	12,236	-	30,902
Federal Agencies	3134G8TG4	FREDDIE MAC	15,000,000	1.50	1.50	4/11/16	10/11/19	18,750	-	-	18,750
Federal Agencies	3130ACM92	FEDERAL HOME LOAN BANK	21,500,000	1.50	1.59	10/13/17	10/21/19	26,875	1,599	-	28,474
Federal Agencies	3136G0T68	FANNIE MAE	14,000,000	1.33	1.44	8/28/17	10/24/19	15,517	1,252	-	16,768
Federal Agencies	3134GBHT2	FREDDIE MAC	50,000,000	1.63	1.60	9/12/17	10/25/19	67,708	(983)	-	66,726
Federal Agencies	3136G4FJ7	FANNIE MAE	25,000,000	1.20	1.20	10/25/16	10/25/19	25,000	-	-	25,000
Federal Agencies	3136G4EZ2	FANNIE MAE	50,000,000	1.13	1.16	10/28/16	10/30/19	46,875	1,413	-	48,288
Federal Agencies	3134GAVL5	FREDDIE MAC	100,000,000	1.17	1.17	11/4/16	11/4/19	97,500	-	-	97,500
Federal Agencies	3133EJRU5	FEDERAL FARM CREDIT BANK	50,000,000	2.45	2.47	6/14/18	11/14/19	102,083	748	-	102,831
Federal Agencies	3136G3LV5	FANNIE MAE	8,950,000	1.35	1.35	5/26/16	11/26/19	10,069	-	-	10,069
Federal Agencies	3133EGN43	FEDERAL FARM CREDIT BANK	50,000,000	2.68	2.68	12/2/16	12/2/19	115,147	-	-	115,147
Federal Agencies	3130A0JR2	FEDERAL HOME LOAN BANK	11,360,000	2.38	1.90	12/15/17	12/13/19	22,483	(4,466)	-	18,017
Federal Agencies	3130A0JR2	FEDERAL HOME LOAN BANK	20,000,000	2.38	1.90	12/12/17	12/13/19	39,583	(7,893)	-	31,690
Federal Agencies	3130A0JR2	FEDERAL HOME LOAN BANK	40,000,000	2.38	1.90	12/15/17	12/13/19	79,167	(15,721)	-	63,445
Federal Agencies	3132X0PG0	FARMER MAC	-	2.57	2.57	2/10/17	1/3/20	35,306	-	28,075	63,381
Federal Agencies	3134G9VR5	FREDDIE MAC	25,000,000	2.00	2.00	7/6/16	1/6/20	39,931	-	-	39,931
Federal Agencies	3136G4KQ5	FANNIE MAE	1,000,000	1.65	1.84	11/17/17	1/17/20	1,375	154	-	1,529
Federal Agencies	3136G4KQ5	FANNIE MAE	31,295,000	1.65	1.84	11/17/17	1/17/20	43,031	4,820	-	47,851
Federal Agencies	3133EJLU1	FEDERAL FARM CREDIT BANK	25,000,000	2.42	2.43	4/24/18	1/24/20	50,417	170	-	50,586
Federal Agencies	3133EJLU1	FEDERAL FARM CREDIT BANK	25,000,000	2.42	2.43	4/24/18	1/24/20	50,417	208	-	50,625
Federal Agencies	3130ADN32	FEDERAL HOME LOAN BANK	50,000,000	2.13	2.22	2/9/18	2/11/20	88,542	3,875	-	92,417
Federal Agencies	313378J77	FEDERAL HOME LOAN BANK	15,710,000	1.88	1.56	5/17/17	3/13/20	24,547	(4,025)	-	20,522
Federal Agencies	3133EHZN6	FEDERAL FARM CREDIT BANK	20,000,000	1.45	1.49	9/20/17	3/20/20	24,167	700	-	24,867
Federal Agencies	3133EJHL6	FEDERAL FARM CREDIT BANK	50,000,000	2.38	2.41	3/27/18	3/27/20	98,958	1,527	-	100,485
Federal Agencies	3136G3TK1	FANNIE MAE	25,000,000	2.00	2.00	7/6/16	4/6/20	40,799	-	-	40,799

Monthly Investment Earnings
Pooled Fund

Type of Investment	CUSIP	Issuer Name	Par Value	Coupon	YTM[1]	Settle Date	Maturity Date	Earned Interest	Amort. Expense	Realized Gain/(Loss)	Earned Income /Net Earnings
Federal Agencies	3134GBET5	FREDDIE MAC	10,000,000	1.80	2.68	5/22/18	4/13/20	15,000	7,195	-	22,195
Federal Agencies	3133EJG37	FEDERAL FARM CREDIT BANK	25,000,000	2.85	2.87	10/15/18	4/15/20	59,375	424	-	59,799
Federal Agencies	3136G4BL6	FANNIE MAE	15,000,000	1.25	1.25	10/17/16	4/17/20	15,625	-	-	15,625
Federal Agencies	3130AE2M1	FEDERAL HOME LOAN BANK	50,000,000	2.50	2.50	4/20/18	4/20/20	104,167	-	-	104,167
Federal Agencies	3137EAEM7	FREDDIE MAC	35,000,000	2.50	2.51	4/19/18	4/23/20	72,917	325	-	73,241
Federal Agencies	3130AE2U3	FEDERAL HOME LOAN BANK	50,000,000	2.51	2.51	4/24/18	4/24/20	104,583	-	-	104,583
Federal Agencies	3130AE2U3	FEDERAL HOME LOAN BANK	50,000,000	2.51	2.51	4/24/18	4/24/20	104,583	-	-	104,583
Federal Agencies	3134GBLY6	FREDDIE MAC	25,000,000	2.00	2.00	5/8/17	5/8/20	41,667	-	-	41,667
Federal Agencies	3134GBPB2	FREDDIE MAC	15,750,000	1.70	1.70	5/30/17	5/22/20	22,313	-	-	22,313
Federal Agencies	3133EHNK5	FEDERAL FARM CREDIT BANK	25,000,000	1.54	1.54	6/15/17	6/15/20	32,083	71	-	32,154
Federal Agencies	3133EHNK5	FEDERAL FARM CREDIT BANK	26,900,000	1.54	1.55	6/15/17	6/15/20	34,522	152	-	34,674
Federal Agencies	3134GBST0	FREDDIE MAC	14,675,000	1.65	1.65	6/22/17	6/22/20	20,178	-	-	20,178
Federal Agencies	3134GBTX0	FREDDIE MAC	50,000,000	1.75	1.76	6/29/17	6/29/20	72,917	283	-	73,200
Federal Agencies	3136G3TG0	FANNIE MAE	15,000,000	1.50	1.50	6/30/16	6/30/20	18,750	-	-	18,750
Federal Agencies	3134GB5M0	FREDDIE MAC	50,000,000	1.96	1.96	12/1/17	7/1/20	81,667	-	-	81,667
Federal Agencies	3133EHQB2	FEDERAL FARM CREDIT BANK	25,000,000	1.55	1.56	7/6/17	7/6/20	32,292	284	-	32,576
Federal Agencies	3130ABNV4	FEDERAL HOME LOAN BANK	50,000,000	1.75	1.75	7/13/17	7/13/20	72,917	-	-	72,917
Federal Agencies	3134GBXV9	FREDDIE MAC	50,000,000	1.85	1.85	7/13/17	7/13/20	77,083	-	-	77,083
Federal Agencies	3135G0T60	FANNIE MAE	50,000,000	1.50	1.60	8/1/17	7/30/20	62,500	4,293	-	66,793
Federal Agencies	3130ABZE9	FEDERAL HOME LOAN BANK	6,700,000	1.65	1.65	8/28/17	8/28/20	9,213	19	-	9,231
Federal Agencies	3130ABZN9	FEDERAL HOME LOAN BANK	25,000,000	1.80	1.80	8/28/17	8/28/20	37,500	-	-	37,500
Federal Agencies	3130ABZN9	FEDERAL HOME LOAN BANK	50,000,000	1.80	1.80	8/28/17	8/28/20	75,000	-	-	75,000
Federal Agencies	3130ADT93	FEDERAL HOME LOAN BANK	25,000,000	2.40	2.43	3/14/18	9/14/20	50,000	527	-	50,527
Federal Agencies	3133EJ3N7	FEDERAL FARM CREDIT BANK	25,000,000	2.77	2.79	12/21/18	9/21/20	57,708	448	-	58,156
Federal Agencies	3130ACE26	FEDERAL HOME LOAN BANK	18,000,000	1.38	1.48	9/8/17	9/28/20	20,625	1,605	-	22,230
Federal Agencies	3130ACE26	FEDERAL HOME LOAN BANK	30,000,000	1.38	1.48	9/8/17	9/28/20	34,375	2,675	-	37,050
Federal Agencies	3130ACK52	FEDERAL HOME LOAN BANK	25,530,000	1.70	2.48	3/12/18	10/5/20	36,168	16,356	-	52,523
Federal Agencies	3132X0KR1	FARMER MAC	25,000,000	2.72	2.72	11/2/16	11/2/20	58,434	-	-	58,434
Federal Agencies	3132X0ZF1	FARMER MAC	12,000,000	1.93	2.02	11/13/17	11/9/20	19,300	852	-	20,152
Federal Agencies	3133EJT90	FEDERAL FARM CREDIT BANK	50,000,000	2.95	3.00	11/16/18	11/16/20	122,917	2,212	-	125,129
Federal Agencies	3137EAEK1	FREDDIE MAC	50,000,000	1.88	1.91	11/15/17	11/17/20	78,125	1,355	-	79,480
Federal Agencies	3134GBX56	FREDDIE MAC	60,000,000	2.25	2.12	11/24/17	11/24/20	112,500	(6,313)	-	106,187
Federal Agencies	3134GBLR1	FREDDIE MAC	24,715,000	1.75	1.75	5/25/17	11/25/20	36,043	60	-	36,103
Federal Agencies	3133EHW58	FEDERAL FARM CREDIT BANK	25,000,000	1.90	1.91	11/27/17	11/27/20	39,583	208	-	39,792
Federal Agencies	3133EHW58	FEDERAL FARM CREDIT BANK	25,000,000	1.90	1.91	11/27/17	11/27/20	39,583	208	-	39,792
Federal Agencies	3130A3UQ5	FEDERAL HOME LOAN BANK	10,000,000	1.88	2.02	12/13/17	12/11/20	15,625	1,201	-	16,826
Federal Agencies	3132X0ZY0	FARMER MAC	12,750,000	2.05	2.07	12/15/17	12/15/20	21,781	242	-	22,023
Federal Agencies	3133EGX75	FEDERAL FARM CREDIT BANK	50,000,000	2.69	2.69	12/21/16	12/21/20	115,293	-	-	115,293
Federal Agencies	3133EFTX5	FEDERAL FARM CREDIT BANK	100,000,000	2.85	2.85	12/24/15	12/24/20	244,356	-	-	244,356
Federal Agencies	3133EJ4Q9	FEDERAL FARM CREDIT BANK	100,000,000	2.55	2.58	1/11/19	1/11/21	141,667	1,896	-	143,563
Federal Agencies	3133EG4T9	FEDERAL FARM CREDIT BANK	-	2.67	2.67	1/25/17	1/25/21	8,888	-	28,754	37,641
Federal Agencies	3133EG4T9	FEDERAL FARM CREDIT BANK	-	2.67	2.67	1/25/17	1/25/21	8,888	-	28,754	37,641
Federal Agencies	3130AC2K9	FEDERAL HOME LOAN BANK	50,200,000	1.87	1.88	9/20/17	2/10/21	78,228	251	-	78,480
Federal Agencies	3133EJCE7	FEDERAL FARM CREDIT BANK	50,000,000	2.35	2.59	4/16/18	2/12/21	97,917	9,792	-	107,709
Federal Agencies	3137EAEL9	FREDDIE MAC	22,000,000	2.38	2.47	2/16/18	2/16/21	43,542	1,643	-	45,184
Federal Agencies	3134GBD58	FREDDIE MAC	5,570,000	1.80	1.80	8/30/17	2/26/21	8,355	14	-	8,369
Federal Agencies	3130AAYP7	FEDERAL HOME LOAN BANK	8,585,000	2.20	2.17	8/11/17	3/22/21	15,739	(196)	-	15,543
Federal Agencies	3132X0Q53	FARMER MAC	6,350,000	2.60	2.64	3/29/18	3/29/21	13,758	196	-	13,954
Federal Agencies	3132X0Q53	FARMER MAC	20,450,000	2.60	2.64	3/29/18	3/29/21	44,308	630	-	44,939
Federal Agencies	3134GBJP8	FREDDIE MAC	22,000,000	1.89	2.06	11/16/17	5/3/21	34,650	3,075	-	37,725
Federal Agencies	3133EJNS4	FEDERAL FARM CREDIT BANK	17,700,000	2.70	2.79	5/22/18	5/10/21	39,825	1,341	-	41,166
Federal Agencies	3134GSNV3	FREDDIE MAC	50,000,000	2.80	2.81	6/14/18	6/14/21	116,667	212	-	116,879
Federal Agencies	3130ACVS0	FEDERAL HOME LOAN BANK	50,000,000	2.13	2.13	11/30/17	6/15/21	88,750	-	-	88,750
Federal Agencies	3130ACVS0	FEDERAL HOME LOAN BANK	50,000,000	2.13	2.13	11/30/17	6/15/21	88,750	-	-	88,750

Monthly Investment Earnings
Pooled Fund

Type of Investment	CUSIP	Issuer Name	Par Value	Coupon	YTM[1]	Settle Date	Maturity Date	Earned Interest	Amort. Expense	Realized Gain/(Loss)	Earned Income /Net Earnings
Federal Agencies	3135G0U35	FANNIE MAE	25,000,000	2.75	2.76	6/25/18	6/22/21	57,292	163	-	57,455
Federal Agencies	3134GBJ60	FREDDIE MAC	50,000,000	1.90	1.90	9/29/17	6/29/21	79,167	-	-	79,167
Federal Agencies	3134G9H26	FREDDIE MAC	1,219,000	1.50	1.92	1/29/18	6/30/21	1,524	424	-	1,948
Federal Agencies	3134G9H26	FREDDIE MAC	3,917,000	1.50	1.86	1/25/18	6/30/21	4,896	1,164	-	6,060
Federal Agencies	3130ACQ98	FEDERAL HOME LOAN BANK	100,000,000	2.08	2.08	11/1/17	7/1/21	173,333	-	-	173,333
Federal Agencies	3134GBM25	FREDDIE MAC	50,000,000	1.92	1.92	10/2/17	7/1/21	80,000	-	-	80,000
Federal Agencies	3130ACF33	FEDERAL HOME LOAN BANK	25,000,000	1.88	1.95	9/18/17	9/13/21	39,063	1,544	-	40,606
Federal Agencies	3135G0Q89	FANNIE MAE	25,000,000	1.38	1.38	10/21/16	10/7/21	28,646	-	-	28,646
Federal Agencies	3133EJK24	FEDERAL FARM CREDIT BANK	25,000,000	3.00	3.03	10/19/18	10/19/21	62,500	540	-	63,040
Federal Agencies	3130AFBE6	FEDERAL HOME LOAN BANK	50,000,000	3.26	3.26	10/30/18	10/25/21	135,833	-	-	135,833
Federal Agencies	3133EGZJ7	FEDERAL FARM CREDIT BANK	14,500,000	1.38	1.38	10/25/16	10/25/21	16,615	-	-	16,615
Federal Agencies	3133EGZJ7	FEDERAL FARM CREDIT BANK	15,000,000	1.38	1.38	10/25/16	10/25/21	17,188	-	-	17,188
Federal Agencies	3133EJT74	FEDERAL FARM CREDIT BANK	50,000,000	3.05	3.09	11/15/18	11/15/21	127,083	1,414	-	128,498
Federal Agencies	3130ACB60	FEDERAL HOME LOAN BANK	50,000,000	2.00	2.00	9/8/17	12/15/21	83,333	-	-	83,333
Federal Agencies	3133EJ3B3	FEDERAL FARM CREDIT BANK	25,000,000	2.80	2.84	12/17/18	12/17/21	58,333	728	-	59,062
Federal Agencies	3133EJ3B3	FEDERAL FARM CREDIT BANK	25,000,000	2.80	2.84	12/17/18	12/17/21	58,333	728	-	59,062
Federal Agencies	3133EJ3B3	FEDERAL FARM CREDIT BANK	25,000,000	2.80	2.85	12/17/18	12/17/21	58,333	1,011	-	59,345
Federal Agencies	3134GSK38	FREDDIE MAC	25,000,000	3.17	3.17	12/20/18	12/20/21	66,042	-	-	66,042
Federal Agencies	3134GSK46	FREDDIE MAC	25,000,000	3.17	3.17	12/20/18	12/20/21	66,042	-	-	66,042
Federal Agencies	3134GSN27	FREDDIE MAC	25,000,000	3.13	3.13	12/21/18	12/21/21	65,208	-	-	65,208
Federal Agencies	3134GSN43	FREDDIE MAC	25,000,000	3.13	3.13	12/21/18	12/21/21	65,208	-	-	65,208
Federal Agencies	3130AFMD6	FEDERAL HOME LOAN BANK	25,000,000	3.03	3.03	1/3/19	1/3/22	58,819	-	-	58,819
Federal Agencies	3130AFMD6	FEDERAL HOME LOAN BANK	25,000,000	3.03	3.03	1/3/19	1/3/22	58,819	-	-	58,819
Federal Agencies	3130AFMD6	FEDERAL HOME LOAN BANK	25,000,000	3.03	3.03	1/3/19	1/3/22	58,819	-	-	58,819
Federal Agencies	3130AFMD6	FEDERAL HOME LOAN BANK	25,000,000	3.03	3.03	1/3/19	1/3/22	58,819	-	-	58,819
Federal Agencies	3135G0T45	FANNIE MAE	25,000,000	1.88	1.81	6/6/17	4/5/22	39,063	(1,270)	-	37,793
Federal Agencies	3134GBQG0	FREDDIE MAC	50,000,000	2.18	2.18	5/25/17	5/25/22	90,833	-	-	90,833
Federal Agencies	3133EHLY7	FEDERAL FARM CREDIT BANK	50,000,000	1.88	1.85	6/6/17	6/2/22	78,125	(1,008)	-	77,117
Federal Agencies	3133EHLY7	FEDERAL FARM CREDIT BANK	50,000,000	1.88	1.88	6/9/17	6/2/22	78,125	43	-	78,168
Federal Agencies	3133EJRN1	FEDERAL FARM CREDIT BANK	25,000,000	3.00	3.05	6/13/18	6/13/22	62,500	902	-	63,402
Federal Agencies	3134GBF72	FREDDIE MAC	50,000,000	2.01	2.01	9/15/17	6/15/22	83,750	-	-	83,750
Federal Agencies	3134GBN73	FREDDIE MAC	50,000,000	2.07	2.07	10/2/17	7/1/22	86,250	-	-	86,250
Federal Agencies	3134GBW99	FREDDIE MAC	100,000,000	2.24	2.24	11/1/17	7/1/22	186,667	-	-	186,667
Federal Agencies	3134GBXU1	FREDDIE MAC	31,575,000	2.25	2.25	7/27/17	7/27/22	59,203	-	-	59,203
Federal Agencies	3130AC7E8	FEDERAL HOME LOAN BANK	50,000,000	2.17	2.17	9/1/17	9/1/22	90,417	-	-	90,417
Federal Agencies	3134GSNN1	FREDDIE MAC	100,000,000	3.27	3.27	6/14/18	6/14/23	272,500	-	-	272,500
Federal Agencies	3134GSPD1	FREDDIE MAC	50,000,000	3.32	3.32	6/14/18	6/14/23	138,333	-	-	138,333
Federal Agencies	3134GSRZ0	FREDDIE MAC	-	3.35	3.35	7/26/18	7/26/23	116,319	-	-	116,319
Federal Agencies	3134GSUA1	FREDDIE MAC	50,000,000	3.38	3.38	8/16/18	8/16/23	140,625	-	-	140,625
Federal Agencies	3134GST47	FREDDIE MAC	17,775,000	3.10	3.11	1/30/19	1/29/24	1,531	12	-	1,542
Federal Agencies	3130AFR90	FEDERAL HOME LOAN BANK	50,000,000	3.25	3.25	1/30/19	1/30/24	4,514	-	-	4,514
Subtotals			**$ 5,200,035,000**					**$ 9,186,538**	**$ 354,553**	**$ 85,582**	**$ 9,626,673**

Monthly Investment Earnings

Pooled Fund

Type of Investment	CUSIP	Issuer Name		Par Value	Coupon	YTM[1]	Settle Date	Maturity Date		Earned Interest		Amort. Expense		Realized Gain/(Loss)		Earned Income /Net Earnings
State/Local Agencies	13063DAB4	CALIFORNIA ST	$	23,000,000	1.59	1.59	4/27/17	4/1/19	$	30,533	$	-	$	-	$	30,533
State/Local Agencies	13063CKL3	CALIFORNIA ST		4,750,000	2.25	1.15	10/27/16	5/1/19		8,906		(4,368)		-		4,539
State/Local Agencies	91412GL60	UNIV OF CALIFORNIA CA REVENUES		2,000,000	1.23	1.23	6/30/16	5/15/19		2,047		-		-		2,047
State/Local Agencies	91412GSB2	UNIV OF CALIFORNIA CA REVENUES		4,180,000	1.80	1.57	10/5/15	7/1/19		6,256		(782)		-		5,474
State/Local Agencies	91412GSB2	UNIV OF CALIFORNIA CA REVENUES		16,325,000	1.80	1.56	10/2/15	7/1/19		24,433		(3,096)		-		21,337
State/Local Agencies	6055804W6	MISSISSIPPI ST		8,500,000	6.09	1.38	4/23/15	10/1/19		43,130		(32,825)		-		10,305
State/Local Agencies	977100CW4	WISCONSIN ST GEN FUND ANNUAL A		18,000,000	1.45	1.45	8/16/16	5/1/20		21,690		-		-		21,690
State/Local Agencies	13063DGA0	CALIFORNIA ST		33,000,000	2.80	2.80	4/25/18	4/1/21		77,000		(38)		-		76,962
State/Local Agencies	13066YTY5	CALIFORNIA ST DEPT OF WTR RESO		28,556,228	1.71	2.30	2/6/17	5/1/21		40,764		9,695		-		50,459
State/Local Agencies	91412GF59	UNIV OF CALIFORNIA CA REVENUES		1,769,000	1.91	1.40	8/9/16	5/15/21		2,816		(743)		-		2,073
Subtotals			**$**	**140,080,228**					**$**	**257,575**	**$**	**(32,158)**	**$**	**-**	**$**	**225,417**
Public Time Deposits	PP041QSK8	BRIDGE BANK	$	10,000,000	2.43	2.43	12/26/18	3/26/19	$	20,638	$	-	$	-	$	20,638
Public Time Deposits	PP9J42KU2	PREFERRED BANK LA CALIF		240,000	2.59	2.59	5/16/18	5/16/19		528		-		-		528
Public Time Deposits	PP9N2NML7	SAN FRANCISCO CREDIT UNION		10,000,000	2.43	2.43	12/5/18	6/4/19		20,638		-		-		20,638
Public Time Deposits	PP041MX54	BANK OF SAN FRANCISCO		5,000,000	2.58	2.58	12/11/18	6/11/19		11,108		-		-		11,108
Public Time Deposits	PP9N20S31	BRIDGE BANK		10,000,000	2.57	2.57	12/24/18	6/24/19		21,827		-		-		21,827
Subtotals			**$**	**35,240,000**					**$**	**74,740**	**$**	**-**	**$**	**-**	**$**	**74,740**
Negotiable CDs	06371EFH5	BANK OF MONTREAL CHICAGO	$	-	2.68	2.68	7/17/17	1/17/19	$	59,529	$	-	$	-	$	59,529
Negotiable CDs	06371EL21	BANK OF MONTREAL CHICAGO		-	2.75	2.75	1/29/18	1/23/19		42,071		-		-		42,071
Negotiable CDs	89114MBD8	TORONTO DOMINION BANK NY		15,000,000	2.43	2.43	8/14/18	2/15/19		31,388		-		-		31,388
Negotiable CDs	96121T7B8	WESTPAC BANKING CORP NY		50,000,000	2.84	2.84	3/5/18	3/5/19		121,281		-		-		121,281
Negotiable CDs	06427KSW8	BANK OF MONTREAL CHICAGO		27,838,000	3.05	3.05	3/9/17	3/8/19		73,045		-		-		73,045
Negotiable CDs	78012UCE3	ROYAL BANK OF CANADA NY		50,000,000	3.00	3.00	3/28/18	4/1/19		128,925		-		-		128,925
Negotiable CDs	06417GR42	BANK OF NOVA SCOTIA HOUSTON		50,000,000	2.97	2.97	4/4/18	4/3/19		127,565		-		-		127,565
Negotiable CDs	06370RCZ0	BANK OF MONTREAL CHICAGO		50,000,000	2.60	2.60	7/6/18	4/24/19		111,944		-		-		111,944
Negotiable CDs	25215FDX9	DEXIA CREDIT LOCAL SA NY		50,000,000	2.57	2.57	8/9/18	4/24/19		110,653		-		-		110,653
Negotiable CDs	89113X3M4	TORONTO DOMINION BANK NY		50,000,000	2.65	2.65	6/20/18	4/24/19		114,097		-		-		114,097
Negotiable CDs	78012UGB5	ROYAL BANK OF CANADA NY		50,000,000	2.53	2.53	8/20/18	4/29/19		108,931		-		-		108,931
Negotiable CDs	89114MBQ9	TORONTO DOMINION BANK NY		50,000,000	2.56	2.56	8/16/18	4/29/19		110,222		-		-		110,222
Negotiable CDs	78012UDL6	ROYAL BANK OF CANADA NY		35,000,000	2.89	2.89	5/2/18	5/1/19		86,932		-		-		86,932
Negotiable CDs	78012UGF6	ROYAL BANK OF CANADA NY		25,000,000	2.55	2.55	8/23/18	5/6/19		54,896		-		-		54,896
Negotiable CDs	78012UDR3	ROYAL BANK OF CANADA NY		40,000,000	2.69	2.69	5/10/18	5/13/19		92,656		-		-		92,656
Negotiable CDs	78012UDV4	ROYAL BANK OF CANADA NY		25,000,000	2.66	2.66	5/23/18	5/24/19		57,264		-		-		57,264
Negotiable CDs	89113XX41	TORONTO DOMINION BANK NY		25,000,000	2.68	2.68	5/23/18	5/24/19		57,694		-		-		57,694
Negotiable CDs	78012UDX0	ROYAL BANK OF CANADA NY		50,000,000	2.81	2.81	6/4/18	6/4/19		120,195		-		-		120,195
Negotiable CDs	25215FDL5	DEXIA CREDIT LOCAL SA NY		40,000,000	2.79	2.79	6/7/18	6/7/19		95,331		-		-		95,331
Negotiable CDs	25215FDY7	DEXIA CREDIT LOCAL SA NY		50,000,000	2.62	2.62	8/10/18	6/14/19		112,806		-		-		112,806
Negotiable CDs	89114MAX5	TORONTO DOMINION BANK NY		50,000,000	2.61	2.61	8/13/18	6/14/19		112,375		-		-		112,375
Negotiable CDs	06370RHT9	BANK OF MONTREAL CHICAGO		40,000,000	2.64	2.64	9/7/18	6/24/19		90,933		-		-		90,933
Negotiable CDs	78012UGS8	ROYAL BANK OF CANADA NY		50,000,000	2.65	2.65	8/31/18	6/24/19		114,097		-		-		114,097
Negotiable CDs	06370RMN6	BANK OF MONTREAL CHICAGO		50,000,000	2.76	2.76	10/15/18	7/1/19		118,833		-		-		118,833
Negotiable CDs	25215FEF7	DEXIA CREDIT LOCAL SA NY		50,000,000	2.82	2.82	11/14/18	7/1/19		121,417		-		-		121,417
Negotiable CDs	89114MAY3	TORONTO DOMINION BANK NY		50,000,000	2.63	2.63	8/13/18	7/1/19		113,236		-		-		113,236
Negotiable CDs	89114MCE5	TORONTO DOMINION BANK NY		50,000,000	2.64	2.64	8/21/18	7/1/19		113,667		-		-		113,667
Negotiable CDs	89114MKR7	TORONTO DOMINION BANK NY		50,000,000	2.93	2.93	11/5/18	7/1/19		126,153		-		-		126,153
Negotiable CDs	63873NB67	NATIXIS NY BRANCH		25,000,000	2.98	2.98	12/19/18	7/22/19		64,153		-		-		64,153
Negotiable CDs	06370RSD2	BANK OF MONTREAL CHICAGO		50,000,000	2.88	2.88	12/19/18	7/25/19		124,000		-		-		124,000
Negotiable CDs	78012ULA1	ROYAL BANK OF CANADA NY		50,000,000	2.94	2.94	12/12/18	8/30/19		126,583		-		-		126,583
Negotiable CDs	78012UKW4	ROYAL BANK OF CANADA NY		50,000,000	3.01	3.01	12/7/18	10/25/19		129,597		-		-		129,597
Negotiable CDs	89114MPG6	TORONTO DOMINION BANK NY		25,000,000	3.06	3.06	12/6/18	10/25/19		65,875		-		-		65,875

Monthly Investment Earnings
Pooled Fund

Type of Investment	CUSIP	Issuer Name	Par Value	Coupon	YTM[1]	Settle Date	Maturity Date	Earned Interest	Amort. Expense	Realized Gain/(Loss)	Earned Income /Net Earnings
Negotiable CDs	89114MLP0	TORONTO DOMINION BANK NY	50,000,000	3.08	3.08	11/9/18	10/28/19	132,611	-	-	132,611
Negotiable CDs	06370RNN5	BANK OF MONTREAL CHICAGO	50,000,000	3.10	3.10	11/6/18	11/6/19	133,472	-	-	133,472
Negotiable CDs	96130AAN8	WESTPAC BANKING CORP NY	50,000,000	3.10	3.10	11/8/18	11/8/19	133,472	-	-	133,472
Negotiable CDs	96130AAT5	WESTPAC BANKING CORP NY	50,000,000	3.08	3.08	11/14/18	11/14/19	132,611	-	-	132,611
Negotiable CDs	89114MME4	TORONTO DOMINION BANK NY	25,000,000	3.10	3.10	11/19/18	11/19/19	66,736	-	-	66,736
Negotiable CDs	78012UKB0	ROYAL BANK OF CANADA NY	50,000,000	3.07	3.07	11/26/18	11/25/19	132,181	-	-	132,181
Negotiable CDs	96130AAZ1	WESTPAC BANKING CORP NY	50,000,000	3.06	3.06	11/29/18	11/27/19	131,750	-	-	131,750
Negotiable CDs	06370RPG8	BANK OF MONTREAL CHICAGO	50,000,000	3.12	3.12	12/3/18	12/3/19	134,333	-	-	134,333
Negotiable CDs	89114MPF8	TORONTO DOMINION BANK NY	50,000,000	3.10	3.10	12/6/18	12/6/19	133,472	-	-	133,472
Negotiable CDs	96130ABE7	WESTPAC BANKING CORP NY	50,000,000	3.05	3.05	12/7/18	12/6/19	131,319	-	-	131,319
Negotiable CDs	06370RQD4	BANK OF MONTREAL CHICAGO	50,000,000	3.06	3.06	12/6/18	12/9/19	131,750	-	-	131,750
Negotiable CDs	06370RQZ5	BANK OF MONTREAL CHICAGO	50,000,000	3.06	3.06	12/10/18	12/11/19	131,750	-	-	131,750
Negotiable CDs	63873NE49	NATIXIS NY BRANCH	50,000,000	3.00	3.00	1/11/19	1/6/20	87,500	-	-	87,500
Subtotals			**$ 1,947,838,000**					**$ 4,851,301**	**$ -**	**$ -**	**$ 4,851,301**
Commercial Paper	62479MN33	MUFG BANK LTD NY	$ -	0.00	2.43	12/21/18	1/3/19	$ -	$ 6,750	$ -	$ 6,750
Commercial Paper	89233HN75	TOYOTA MOTOR CREDIT CORP	-	0.00	2.46	6/21/18	1/7/19	-	10,125	-	10,125
Commercial Paper	63873KNA1	NATIXIS NY BRANCH	-	0.00	2.36	1/9/19	1/10/19	-	1,639	-	1,639
Commercial Paper	63873KNB9	NATIXIS NY BRANCH	-	0.00	2.36	1/10/19	1/11/19	-	3,278	-	3,278
Commercial Paper	63873KNB9	NATIXIS NY BRANCH	-	0.00	2.36	1/10/19	1/11/19	-	3,278	-	3,278
Commercial Paper	63873KNB9	NATIXIS NY BRANCH	-	0.00	2.36	1/10/19	1/11/19	-	1,967	-	1,967
Commercial Paper	63873KNE3	NATIXIS NY BRANCH	-	0.00	2.36	1/11/19	1/14/19	-	4,917	-	4,917
Commercial Paper	63873KNF0	NATIXIS NY BRANCH	-	0.00	2.36	1/14/19	1/15/19	-	2,622	-	2,622
Commercial Paper	63873KNF0	NATIXIS NY BRANCH	-	0.00	2.36	1/14/19	1/15/19	-	3,278	-	3,278
Commercial Paper	63873KNG8	NATIXIS NY BRANCH	-	0.00	2.36	1/15/19	1/16/19	-	3,278	-	3,278
Commercial Paper	63873KNG8	NATIXIS NY BRANCH	-	0.00	2.36	1/15/19	1/16/19	-	2,950	-	2,950
Commercial Paper	63873KNH6	NATIXIS NY BRANCH	-	0.00	2.36	1/16/19	1/17/19	-	3,278	-	3,278
Commercial Paper	63873KNH6	NATIXIS NY BRANCH	-	0.00	2.36	1/16/19	1/17/19	-	2,294	-	2,294
Commercial Paper	63873KNJ2	NATIXIS NY BRANCH	-	0.00	2.36	1/17/19	1/18/19	-	3,278	-	3,278
Commercial Paper	63873KNJ2	NATIXIS NY BRANCH	-	0.00	2.36	1/17/19	1/18/19	-	3,278	-	3,278
Commercial Paper	63873KNJ2	NATIXIS NY BRANCH	-	0.00	2.36	1/17/19	1/18/19	-	2,950	-	2,950
Commercial Paper	62479MNN9	MUFG BANK LTD NY	-	0.00	2.42	8/10/18	1/22/19	-	29,278	-	29,278
Commercial Paper	63873KNN3	NATIXIS NY BRANCH	-	0.00	2.36	1/18/19	1/22/19	-	17,044	-	17,044
Commercial Paper	63873KNP8	NATIXIS NY BRANCH	-	0.00	2.36	1/22/19	1/23/19	-	3,606	-	3,606
Commercial Paper	63873KNQ6	NATIXIS NY BRANCH	-	0.00	2.36	1/23/19	1/24/19	-	2,294	-	2,294
Commercial Paper	63873KNU7	NATIXIS NY BRANCH	-	0.00	2.36	1/25/19	1/28/19	-	9,833	-	9,833
Commercial Paper	63873KNU7	NATIXIS NY BRANCH	-	0.00	2.36	1/25/19	1/28/19	-	7,867	-	7,867
Commercial Paper	63873KNV5	NATIXIS NY BRANCH	-	0.00	2.36	1/28/19	1/29/19	-	3,278	-	3,278
Commercial Paper	63873KNV5	NATIXIS NY BRANCH	-	0.00	2.36	1/28/19	1/29/19	-	3,278	-	3,278
Commercial Paper	63873KNV5	NATIXIS NY BRANCH	-	0.00	2.36	1/28/19	1/29/19	-	2,294	-	2,294
Commercial Paper	63873KNW3	NATIXIS NY BRANCH	-	0.00	2.36	1/29/19	1/30/19	-	3,278	-	3,278
Commercial Paper	63873KNW3	NATIXIS NY BRANCH	-	0.00	2.36	1/29/19	1/30/19	-	3,278	-	3,278
Commercial Paper	63873KNW3	NATIXIS NY BRANCH	-	0.00	2.36	1/29/19	1/30/19	-	1,967	-	1,967
Commercial Paper	63873KNX1	NATIXIS NY BRANCH	-	0.00	2.36	1/30/19	1/31/19	-	3,278	-	3,278
Commercial Paper	63873KNX1	NATIXIS NY BRANCH	-	0.00	2.36	1/30/19	1/31/19	-	3,278	-	3,278
Commercial Paper	63873KNX1	NATIXIS NY BRANCH	-	0.00	2.36	1/30/19	1/31/19	-	1,639	-	1,639
Commercial Paper	63873KP19	NATIXIS NY BRANCH	25,000,000	0.00	2.36	1/31/19	2/1/19	-	1,639	-	1,639
Commercial Paper	63873KP19	NATIXIS NY BRANCH	50,000,000	0.00	2.36	1/31/19	2/1/19	-	3,278	-	3,278
Commercial Paper	63873KP19	NATIXIS NY BRANCH	50,000,000	0.00	2.36	1/31/19	2/1/19	-	3,278	-	3,278
Commercial Paper	89116FP46	TORONTO DOMINION HDG USA	15,000,000	0.00	2.45	8/8/18	2/4/19	-	31,258	-	31,258

Monthly Investment Earnings
Pooled Fund

Type of Investment	CUSIP	Issuer Name	Par Value	Coupon	YTM[1]	Settle Date	Maturity Date	Earned Interest	Amort. Expense	Realized Gain/(Loss)	Earned Income /Net Earnings
Commercial Paper	25214PH22	DEXIA CREDIT LOCAL SA NY	50,000,000	0.00	2.51	5/15/18	2/5/19	-	105,917	-	105,917
Commercial Paper	89233HP65	TOYOTA MOTOR CREDIT CORP	30,000,000	0.00	2.51	7/3/18	2/6/19	-	63,808	-	63,808
Commercial Paper	03785EPF5	APPLE INC	45,000,000	0.00	2.37	8/17/18	2/15/19	-	90,675	-	90,675
Commercial Paper	62479MPL1	MUFG BANK LTD NY	30,000,000	0.00	2.59	6/8/18	2/20/19	-	65,617	-	65,617
Commercial Paper	25214PJV6	DEXIA CREDIT LOCAL SA NY	32,000,000	0.00	2.52	7/18/18	2/22/19	-	68,338	-	68,338
Commercial Paper	62479MPN7	MUFG BANK LTD NY	15,000,000	0.00	2.46	8/14/18	2/22/19	-	31,388	-	31,388
Commercial Paper	62479MQR7	MUFG BANK LTD NY	15,000,000	0.00	2.51	8/14/18	3/25/19	-	31,904	-	31,904
Commercial Paper	25214PKT9	DEXIA CREDIT LOCAL SA NY	15,000,000	0.00	2.51	8/14/18	4/1/19	-	31,904	-	31,904
Commercial Paper	62479MTR4	MUFG BANK LTD NY	40,000,000	0.00	2.76	10/15/18	6/25/19	-	93,344	-	93,344
Commercial Paper	89233HTR5	TOYOTA MOTOR CREDIT CORP	50,000,000	0.00	2.74	10/15/18	6/25/19	-	115,819	-	115,819
Commercial Paper	62479MTS2	MUFG BANK LTD NY	50,000,000	0.00	2.92	11/6/18	6/26/19	-	123,569	-	123,569
Commercial Paper	62479MU19	MUFG BANK LTD NY	50,000,000	0.00	2.97	11/13/18	7/1/19	-	125,292	-	125,292
Commercial Paper	62479MU19	MUFG BANK LTD NY	50,000,000	0.00	2.95	11/15/18	7/1/19	-	124,861	-	124,861
Commercial Paper	62479MU19	MUFG BANK LTD NY	50,000,000	0.00	2.95	11/19/18	7/1/19	-	124,861	-	124,861
Commercial Paper	63873KU13	NATIXIS NY BRANCH	25,000,000	0.00	2.92	11/26/18	7/1/19	-	61,785	-	61,785
Commercial Paper	89233HU10	TOYOTA MOTOR CREDIT CORPORATI(	50,000,000	0.00	2.75	10/11/18	7/1/19	-	116,250	-	116,250
Commercial Paper	89233HU10	TOYOTA MOTOR CREDIT CORP	50,000,000	0.00	2.85	11/16/18	7/1/19	-	120,556	-	120,556
Commercial Paper	89233HU10	TOYOTA MOTOR CREDIT CORP	50,000,000	0.00	2.88	11/26/18	7/1/19	-	121,847	-	121,847
Commercial Paper	62479MU84	MUFG BANK LTD NY	40,000,000	0.00	2.95	11/28/18	7/8/19	-	99,889	-	99,889
Commercial Paper	62479MU84	MUFG BANK LTD NY	50,000,000	0.00	2.95	11/27/18	7/8/19	-	124,861	-	124,861
Commercial Paper	62479MUA9	MUFG BANK LTD NY	30,000,000	0.00	2.92	12/7/18	7/10/19	-	74,142	-	74,142
Commercial Paper	63873KUN5	NATIXIS NY BRANCH	50,000,000	0.00	2.97	12/11/18	7/22/19	-	125,722	-	125,722
Commercial Paper	62479MUQ4	MUFG BANK LTD NY	40,000,000	0.00	2.91	12/27/18	7/24/19	-	98,511	-	98,511
Commercial Paper	25214PNB5	DEXIA CREDIT LOCAL SA NY	15,000,000	0.00	2.81	1/3/19	8/5/19	-	33,350	-	33,350
Commercial Paper	25214PNC3	DEXIA CREDIT LOCAL SA NY	40,000,000	0.00	2.81	1/3/19	8/6/19	-	88,933	-	88,933
Commercial Paper	62479MV75	MUFG BANK LTD NY	50,000,000	0.00	2.74	1/29/19	8/7/19	-	11,250	-	11,250
Subtotals			**$ 1,152,000,000**					**$ -**	**$ 2,468,493**	**$ -**	**$ 2,468,493**

Monthly Investment Earnings
Pooled Fund

Type of Investment	CUSIP	Issuer Name	Par Value	Coupon	YTM[1]	Settle Date	Maturity Date	Earned Interest	Amort. Expense	Realized Gain/(Loss)	Earned Income /Net Earnings
Medium Term Notes	89236TDN2	TOYOTA MOTOR CREDIT CORP	$ -	2.67	2.67	1/9/17	1/9/19	$ 29,645	$ -	$ -	$ 29,645
Medium Term Notes	037833AQ3	APPLE INC	18,813,000	2.10	2.37	5/31/18	5/6/19	32,923	4,305	-	37,228
Medium Term Notes	742718EG0	THE PROCTER & GAMBLE CO	9,650,000	1.90	2.62	6/20/18	11/1/19	15,279	5,773	-	21,052
Medium Term Notes	89236TEJ0	TOYOTA MOTOR CREDIT CORP	20,000,000	2.20	2.25	1/11/18	1/10/20	36,667	757	-	37,424
Medium Term Notes	89236TFQ3	TOYOTA MOTOR CREDIT CORP	5,000,000	3.05	3.08	1/8/19	1/8/21	9,743	99	-	9,842
Subtotals			**$ 53,463,000**					**$ 124,257**	**$ 10,934**	**$ -**	**$ 135,191**
Money Market Funds	262006208	DREYFUS GOVERN CASH MGMT-I	$ 10,126,262	2.31	2.31	8/3/18	2/1/19	$ 22,390	$ -	$ -	$ 22,390
Money Market Funds	608919718	FEDERATED GOVERNMENT OBL-PRM	19,335,657	2.30	2.30	8/3/18	2/1/19	43,267	-	-	43,267
Money Market Funds	09248U718	BLACKROCK LIQ INST GOV FUND	10,184,227	2.27	2.27	1/15/13	2/1/19	38,325	-	-	38,325
Money Market Funds	31607A703	FIDELITY INST GOV FUND	185,881,835	2.33	2.33	11/4/15	2/1/19	137,862	-	-	137,862
Money Market Funds	61747C707	MORGAN STANLEY INST GOVT FUND	135,655,096	2.31	2.31	12/31/12	2/1/19	310,471	-	-	310,471
Subtotals			**$ 361,183,077**					**$ 552,314**	**$ -**	**$ -**	**$ 552,314**
Supranationals	459052AQ9	INTL BK RECON & DEVELOP DISC	$ -	0.00	2.42	12/27/18	1/15/19	$ -	$ 15,058	$ -	$ 15,058
Supranationals	45950VLM6	INTERNATIONAL FINANCE CORP	50,000,000	2.52	2.52	3/1/18	3/1/19	108,267	-	-	108,267
Supranationals	458182DX7	INTER-AMERICAN DEVEL BK	5,000,000	1.00	2.43	6/11/18	5/13/19	4,167	5,997	-	10,164
Supranationals	458182DX7	INTER-AMERICAN DEVEL BK	14,270,000	1.00	2.41	6/6/18	5/13/19	11,892	16,845	-	28,736
Supranationals	458182DX7	INTER-AMERICAN DEVEL BK	20,557,000	1.00	2.30	6/1/18	5/13/19	17,131	22,452	-	39,583
Supranationals	459058EV1	INTL BK RECON & DEVELOP	10,000,000	1.25	2.47	6/28/18	7/26/19	10,417	10,199	-	20,616
Supranationals	4581X0BY3	INTER-AMERICAN DEVEL BK	44,716,000	1.13	2.77	11/5/18	9/12/19	41,921	61,287	-	103,208
Supranationals	459058FQ1	INTL BK RECON & DEVELOP	50,000,000	1.20	1.75	11/6/17	9/30/19	50,000	23,087	-	73,087
Supranationals	45905UZJ6	INTL BK RECON & DEVELOP	25,000,000	1.30	1.56	6/2/17	10/25/19	27,083	5,491	-	32,575
Supranationals	45905UZJ6	INTL BK RECON & DEVELOP	29,300,000	1.30	1.56	6/2/17	10/25/19	31,742	6,436	-	38,178
Supranationals	459058FZ1	INTL BK RECON & DEVELOP	50,000,000	1.88	1.94	3/21/17	4/21/20	78,167	1,197	-	79,363
Supranationals	4581X0CX4	INTER-AMERICAN DEVEL BK	10,000,000	1.63	2.72	5/17/18	5/12/20	13,542	8,994	-	22,536
Supranationals	4581X0CX4	INTER-AMERICAN DEVEL BK	25,000,000	1.63	1.72	4/12/17	5/12/20	33,854	1,631	-	35,485
Supranationals	459058GA5	INTL BK RECON & DEVELOP	50,000,000	1.63	1.64	8/29/17	9/4/20	67,750	295	-	68,045
Supranationals	45905UQ80	INTL BK RECON & DEVELOP	50,000,000	1.95	1.97	11/9/17	11/9/20	81,250	990	-	82,240
Supranationals	45905UQ80	INTL BK RECON & DEVELOP	50,000,000	1.95	2.15	12/20/17	11/9/20	81,250	8,272	-	89,522
Supranationals	459058GM9	INTL BK RECON & DEVELOP	50,000,000	3.00	3.00	12/28/18	12/28/20	125,000	-	-	125,000
Supranationals	45950KCM0	INTERNATIONAL FINANCE CORP	50,000,000	2.25	2.35	1/25/18	1/25/21	93,750	4,158	-	97,908
Supranationals	4581X0DB1	INTER-AMERICAN DEVEL BK	45,000,000	2.63	2.70	4/19/18	4/19/21	98,438	2,800	-	101,238
Supranationals	4581X0DB1	INTER-AMERICAN DEVEL BK	50,000,000	2.63	2.84	5/16/18	4/19/21	109,375	8,875	-	118,250
Supranationals	45950KCJ7	INTERNATIONAL FINANCE CORP	12,135,000	1.13	2.97	5/23/18	7/20/21	11,387	17,140	-	28,527
Supranationals	459058GH0	INTL BK RECON & DEVELOP	50,000,000	2.75	2.85	7/25/18	7/23/21	114,722	3,315	-	118,038
Supranationals	45905UW59	INTL BK RECON & DEVELOP	50,000,000	3.05	3.06	9/13/18	9/13/21	127,083	424	-	127,508
Supranationals	45905UW67	INTL BK RECON & DEVELOP	22,500,000	3.13	3.18	11/29/18	9/28/21	58,594	1,012	-	59,606
Subtotals			**$ 813,478,000**					**$ 1,396,780**	**$ 225,954**	**$ -**	**$ 1,622,734**
Grand Totals			**$ 10,613,317,305**					**$ 17,281,231**	**$ 3,816,321**	**$ 85,750**	**$ 21,183,303**

[1] Yield to maturity is calculated at purchase

Investment Transactions
Pooled Fund

For month ended January 31, 2019

Transaction	Settle Date	Maturity	Type of Investment	Issuer Name	CUSIP	Par Value	Coupon	YTM	Price	Interest	Transaction
Purchase	1/2/2019	1/3/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AC3	$ 50,000,000	0.00	2.35	$ 99.99	$ -	$ 49,996,736
Purchase	1/2/2019	1/3/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AC3	50,000,000	0.00	2.35	99.99	-	49,996,736
Purchase	1/2/2019	1/3/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AC3	50,000,000	0.00	2.35	99.99	-	49,996,736
Purchase	1/2/2019	1/3/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AC3	50,000,000	0.00	2.35	99.99	-	49,996,736
Purchase	1/2/2019	1/3/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AC3	50,000,000	0.00	2.35	99.99	-	49,996,736
Purchase	1/3/2019	1/4/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AD1	45,000,000	0.00	2.35	99.99	-	44,997,063
Purchase	1/3/2019	1/4/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AD1	50,000,000	0.00	2.35	99.99	-	49,996,736
Purchase	1/3/2019	1/4/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AD1	50,000,000	0.00	2.35	99.99	-	49,996,736
Purchase	1/3/2019	1/4/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AD1	50,000,000	0.00	2.35	99.99	-	49,996,736
Purchase	1/3/2019	2/1/2019	Money Market Funds	MORGAN STANLEY INST GOVT	61747C707	100,000,000	2.32	2.31	100.00	-	100,000,000
Purchase	1/3/2019	8/5/2019	Commercial Paper	DEXIA CREDIT LOCAL SA NY	25214PNB5	15,000,000	0.00	2.81	98.36	-	14,753,900
Purchase	1/3/2019	8/6/2019	Commercial Paper	DEXIA CREDIT LOCAL SA NY	25214PNC3	40,000,000	0.00	2.81	98.35	-	39,340,667
Purchase	1/3/2019	1/3/2022	Federal Agencies	FEDERAL HOME LOAN BANK	3130AFMD6	25,000,000	3.03	3.03	100.00	-	25,000,000
Purchase	1/3/2019	1/3/2022	Federal Agencies	FEDERAL HOME LOAN BANK	3130AFMD6	25,000,000	3.03	3.03	100.00	-	25,000,000
Purchase	1/3/2019	1/3/2022	Federal Agencies	FEDERAL HOME LOAN BANK	3130AFMD6	25,000,000	3.03	3.03	100.00	-	25,000,000
Purchase	1/3/2019	1/3/2022	Federal Agencies	FEDERAL HOME LOAN BANK	3130AFMD6	25,000,000	3.03	3.03	100.00	-	25,000,000
Purchase	1/4/2019	2/1/2019	Money Market Funds	FEDERATED GOVERNMENT OBL	608919718	50,000,000	2.30	2.30	100.00	-	50,000,000
Purchase	1/4/2019	2/1/2019	Money Market Funds	BLACKROCK LIQ INST GOV F	09248U718	50,000,000	2.27	2.27	100.00	-	50,000,000
Purchase	1/4/2019	2/1/2019	Money Market Funds	MORGAN STANLEY INST GOVT	61747C707	100,000,000	2.32	2.31	100.00	-	100,000,000
Purchase	1/8/2019	1/8/2021	Medium Term Notes	TOYOTA MOTOR CREDIT CORP	89236TFQ3	5,000,000	3.05	3.08	99.94	-	4,997,000
Purchase	1/9/2019	1/10/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNA1	25,000,000	0.00	2.36	99.99	-	24,998,361
Purchase	1/10/2019	1/11/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNB9	30,000,000	0.00	2.36	99.99	-	29,998,033
Purchase	1/10/2019	1/11/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNB9	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/10/2019	1/11/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNB9	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/11/2019	1/14/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNE3	25,000,000	0.00	2.36	99.98	-	24,995,083
Purchase	1/11/2019	1/6/2020	Negotiable CDs	NATIXIS NY BRANCH	63873NE49	50,000,000	3.00	3.00	100.00	-	50,000,000
Purchase	1/11/2019	1/11/2021	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EJ4Q9	100,000,000	2.55	2.58	99.93	-	99,934,000
Purchase	1/14/2019	1/15/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNF0	40,000,000	0.00	2.36	99.99	-	39,997,378
Purchase	1/14/2019	1/15/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNF0	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/15/2019	1/16/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNG8	45,000,000	0.00	2.36	99.99	-	44,997,050
Purchase	1/15/2019	1/16/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNG8	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/16/2019	1/17/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNH6	35,000,000	0.00	2.36	99.99	-	34,997,706
Purchase	1/16/2019	1/17/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNH6	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/16/2019	1/18/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AT6	34,495,000	0.00	2.29	99.99	-	34,490,611
Purchase	1/17/2019	1/18/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNJ2	45,000,000	0.00	2.36	99.99	-	44,997,050
Purchase	1/17/2019	1/18/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNJ2	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/17/2019	1/18/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNJ2	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/17/2019	2/1/2019	Money Market Funds	FIDELITY INST GOV FUND	31607A703	40,000,000	2.33	2.33	100.00	-	40,000,000
Purchase	1/18/2019	1/22/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNN3	65,000,000	0.00	2.36	99.97	-	64,982,956
Purchase	1/22/2019	1/23/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNP8	55,000,000	0.00	2.36	99.99	-	54,996,394
Purchase	1/23/2019	1/24/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNQ6	35,000,000	0.00	2.36	99.99	-	34,997,706
Purchase	1/24/2019	2/1/2019	Money Market Funds	FIDELITY INST GOV FUND	31607A703	60,000,000	2.33	2.33	100.00	-	60,000,000
Purchase	1/25/2019	1/28/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNU7	40,000,000	0.00	2.36	99.98	-	39,992,133
Purchase	1/25/2019	1/28/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNU7	50,000,000	0.00	2.36	99.98	-	49,990,167
Purchase	1/28/2019	1/29/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNV5	35,000,000	0.00	2.36	99.99	-	34,997,706
Purchase	1/28/2019	1/29/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNV5	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/28/2019	1/29/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNV5	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/29/2019	1/30/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNW3	30,000,000	0.00	2.36	99.99	-	29,998,033
Purchase	1/29/2019	1/30/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNW3	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/29/2019	1/30/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNW3	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/29/2019	2/1/2019	Money Market Funds	FIDELITY INST GOV FUND	31607A703	57,000,000	2.33	2.33	100.00	-	57,000,000
Purchase	1/29/2019	2/20/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384CC1	50,000,000	0.00	2.36	99.86	-	49,927,889

Investment Transactions

Pooled Fund

Transaction	Settle Date	Maturity	Type of Investment	Issuer Name	CUSIP	Par Value	Coupon	YTM	Price	Interest	Transaction
Purchase	1/29/2019	2/22/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384CE7	10,600,000	0.00	2.36	99.84	-	10,583,323
Purchase	1/29/2019	8/7/2019	Commercial Paper	MUFG BANK LTD NY	62479MV75	50,000,000	0.00	2.74	98.58	-	49,287,500
Purchase	1/30/2019	1/31/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNX1	25,000,000	0.00	2.36	99.99	-	24,998,361
Purchase	1/30/2019	1/31/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNX1	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/30/2019	1/31/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNX1	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/30/2019	2/1/2019	Money Market Funds	FIDELITY INST GOV FUND	31607A703	15,000,000	2.33	2.33	100.00	-	15,000,000
Purchase	1/30/2019	1/29/2024	Federal Agencies	FREDDIE MAC	3134GST47	17,775,000	3.10	3.11	99.94	1,531	17,765,866
Purchase	1/30/2019	1/30/2024	Federal Agencies	FEDERAL HOME LOAN BANK	3130AFR90	50,000,000	3.25	3.25	100.00	-	50,000,000
Purchase	1/31/2019	2/1/2019	Money Market Funds	DREYFUS GOVERN CASH MGMT	262006208	22,390	2.31	2.31	100.00	-	22,390
Purchase	1/31/2019	2/1/2019	Money Market Funds	FEDERATED GOVERNMENT OBL	608919718	43,267	2.30	2.30	100.00	-	43,267
Purchase	1/31/2019	2/1/2019	Money Market Funds	FIDELITY INST GOV FUND	31607A703	137,862	2.33	2.33	100.00	-	137,862
Purchase	1/31/2019	2/1/2019	Money Market Funds	MORGAN STANLEY INST GOVT	61747C707	310,471	2.32	2.31	100.00	-	310,471
Purchase	1/31/2019	2/1/2019	Commercial Paper	NATIXIS NY BRANCH	63873KP19	25,000,000	0.00	2.36	99.99	-	24,998,361
Purchase	1/31/2019	2/1/2019	Commercial Paper	NATIXIS NY BRANCH	63873KP19	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/31/2019	2/1/2019	Commercial Paper	NATIXIS NY BRANCH	63873KP19	50,000,000	0.00	2.36	99.99	-	49,996,722
Purchase	1/31/2019	2/5/2019	U.S. Treasuries	TREASURY BILL	912796UM9	50,000,000	0.00	2.31	99.97	-	49,983,944
Subtotals						**$2,845,383,990**	**0.71**	**2.43**	**$ 99.93**	**$ 1,531**	**$2,843,432,952**
Sale	1/2/2019	2/1/2019	Money Market Funds	DREYFUS GOVERN CASH MGMT	262006208	$ 40,000,000	2.31	2.31	$ 100.00	$ -	$ 40,000,000
Sale	1/2/2019	2/1/2019	Money Market Funds	FIDELITY INST GOV FUND	31607A703	100,000,000	2.33	2.33	100.00	-	100,000,000
Sale	1/2/2019	2/1/2019	Money Market Funds	MORGAN STANLEY INST GOVT	61747C707	100,000,000	2.32	2.31	100.00	-	100,000,000
Sale	1/3/2019	2/1/2019	Money Market Funds	FIDELITY INST GOV FUND	31607A703	100,000,000	2.33	2.33	100.00	-	100,000,000
Sale	1/4/2019	1/15/2019	U.S. Treasuries	TREASURY BILL	912796UJ6	50,000,000	0.00	2.26	99.93	-	49,965,640
Sale	1/4/2019	2/1/2019	Money Market Funds	FIDELITY INST GOV FUND	31607A703	50,000,000	2.33	2.33	100.00	-	50,000,000
Sale	1/7/2019	2/1/2019	Money Market Funds	FEDERATED GOVERNMENT OBL	608919718	40,000,000	2.30	2.30	100.00	-	40,000,000
Sale	1/7/2019	1/25/2021	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EG4T9	20,000,000	2.67	2.67	100.14	19,256	20,048,010
Sale	1/7/2019	1/25/2021	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EG4T9	20,000,000	2.67	2.67	100.14	19,256	20,048,010
Sale	1/10/2019	2/1/2019	Money Market Funds	BLACKROCK LIQ INST GOV F	09248U718	50,000,000	2.27	2.27	100.00	-	50,000,000
Sale	1/10/2019	2/1/2019	Money Market Funds	MORGAN STANLEY INST GOVT	61747C707	50,000,000	2.32	2.31	100.00	-	50,000,000
Sale	1/11/2019	1/3/2020	Federal Agencies	FARMER MAC	3132X0PG0	50,000,000	2.57	2.57	100.06	28,585	50,056,660
Sale	1/14/2019	2/1/2019	Money Market Funds	MORGAN STANLEY INST GOVT	61747C707	50,000,000	2.32	2.31	100.00	-	50,000,000
Subtotals						**$ 720,000,000**	**2.19**	**2.35**	**$ 100.01**	**$ 67,098**	**$ 720,118,320**
Call	1/26/2019	7/26/2023	Federal Agencies	FREDDIE MAC	3134GSRZ0	$ 50,000,000	3.35	3.35	100.00	$ -	$ 50,000,000
Subtotals						**$ 50,000,000**	**3.35**	**3.35**	**$ 100.00**	**$ -**	**$ 50,000,000**
Maturity	1/2/2019	1/2/2019	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EGDM4	$ 25,000,000	2.51	2.51	100.00	$ 54,019	$ 25,054,019
Maturity	1/3/2019	1/3/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AC3	50,000,000	0.00	2.35	100.00	-	50,000,000
Maturity	1/3/2019	1/3/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AC3	50,000,000	0.00	2.35	100.00	-	50,000,000
Maturity	1/3/2019	1/3/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AC3	50,000,000	0.00	2.35	100.00	-	50,000,000
Maturity	1/3/2019	1/3/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AC3	50,000,000	0.00	2.35	100.00	-	50,000,000
Maturity	1/3/2019	1/3/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AC3	50,000,000	0.00	2.35	100.00	-	50,000,000
Maturity	1/3/2019	1/3/2019	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EG2V6	25,000,000	2.40	2.40	100.00	51,651	25,051,651
Maturity	1/3/2019	1/3/2019	Commercial Paper	MUFG BANK LTD NY	62479MN33	50,000,000	0.00	2.43	100.00	-	50,000,000
Maturity	1/4/2019	1/4/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AD1	45,000,000	0.00	2.35	100.00	-	45,000,000
Maturity	1/4/2019	1/4/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AD1	50,000,000	0.00	2.35	100.00	-	50,000,000
Maturity	1/4/2019	1/4/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AD1	50,000,000	0.00	2.35	100.00	-	50,000,000
Maturity	1/4/2019	1/4/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AD1	50,000,000	0.00	2.35	100.00	-	50,000,000
Maturity	1/7/2019	1/7/2019	Commercial Paper	TOYOTA MOTOR CREDIT CORP	89233HN75	25,000,000	0.00	2.46	100.00	-	25,000,000
Maturity	1/9/2019	1/9/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AJ8	50,000,000	0.00	2.33	100.00	-	50,000,000
Maturity	1/9/2019	1/9/2019	Medium Term Notes	TOYOTA MOTOR CREDIT CORP	89236TDN2	50,000,000	2.67	2.67	100.00	340,919	50,340,919
Maturity	1/10/2019	1/10/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNA1	25,000,000	0.00	2.36	100.00	-	25,000,000
Maturity	1/11/2019	1/11/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNB9	30,000,000	0.00	2.36	100.00	-	30,000,000

Investment Transactions
Pooled Fund

Transaction	Settle Date	Maturity	Type of Investment	Issuer Name	CUSIP	Par Value	Coupon	YTM	Price	Interest	Transaction
Maturity	1/11/2019	1/11/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNB9	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/11/2019	1/11/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNB9	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/14/2019	1/14/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNE3	25,000,000	0.00	2.36	100.00	-	25,000,000
Maturity	1/15/2019	1/15/2019	Supranationals	INTL BK RECON & DEVELOP	459052AQ9	16,000,000	0.00	2.42	100.00	-	16,000,000
Maturity	1/15/2019	1/15/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNF0	40,000,000	0.00	2.36	100.00	-	40,000,000
Maturity	1/15/2019	1/15/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNF0	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/15/2019	1/15/2019	U.S. Treasuries	US TREASURY	912828N63	15,000,000	1.13	2.16	100.00	84,375	15,084,375
Maturity	1/16/2019	1/16/2019	Federal Agencies	FEDERAL HOME LOAN BANK	3130AAE46	8,270,000	1.25	2.12	100.00	51,688	8,321,688
Maturity	1/16/2019	1/16/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNG8	45,000,000	0.00	2.36	100.00	-	45,000,000
Maturity	1/16/2019	1/16/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNG8	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/17/2019	1/17/2019	Negotiable CDs	BANK OF MONTREAL CHICAGO	06371EFH5	50,000,000	2.68	2.68	100.00	342,292	50,342,292
Maturity	1/17/2019	1/17/2019	Federal Agencies	FREDDIE MAC	3134GAH23	25,000,000	2.00	2.00	100.00	250,000	25,250,000
Maturity	1/17/2019	1/17/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNH6	35,000,000	0.00	2.36	100.00	-	35,000,000
Maturity	1/17/2019	1/17/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNH6	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/18/2019	1/18/2019	Federal Agencies	FED HOME LN DISCOUNT NT	313384AT6	34,495,000	0.00	2.29	100.00	-	34,495,000
Maturity	1/18/2019	1/18/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNJ2	45,000,000	0.00	2.36	100.00	-	45,000,000
Maturity	1/18/2019	1/18/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNJ2	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/18/2019	1/18/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNJ2	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/22/2019	1/22/2019	Commercial Paper	MUFG BANK LTD NY	62479MNN9	21,000,000	0.00	2.42	100.00	-	21,000,000
Maturity	1/22/2019	1/22/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNN3	65,000,000	0.00	2.36	100.00	-	65,000,000
Maturity	1/23/2019	1/23/2019	Negotiable CDs	BANK OF MONTREAL CHICAGO	06371EL21	25,000,000	2.75	2.75	100.00	57,370	25,057,370
Maturity	1/23/2019	1/23/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNP8	55,000,000	0.00	2.36	100.00	-	55,000,000
Maturity	1/24/2019	1/24/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNQ6	35,000,000	0.00	2.36	100.00	-	35,000,000
Maturity	1/25/2019	1/25/2019	Federal Agencies	FEDERAL HOME LOAN BANK	3130A8VZ3	25,000,000	1.05	1.05	100.00	131,250	25,131,250
Maturity	1/25/2019	1/25/2019	Federal Agencies	FARMER MAC	3132X0EK3	25,000,000	2.59	2.59	100.00	165,465	25,165,465
Maturity	1/28/2019	1/28/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNU7	40,000,000	0.00	2.36	100.00	-	40,000,000
Maturity	1/28/2019	1/28/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNU7	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/29/2019	1/29/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNV5	35,000,000	0.00	2.36	100.00	-	35,000,000
Maturity	1/29/2019	1/29/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNV5	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/29/2019	1/29/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNV5	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/30/2019	1/30/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNW3	30,000,000	0.00	2.36	100.00	-	30,000,000
Maturity	1/30/2019	1/30/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNW3	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/30/2019	1/30/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNW3	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/31/2019	1/31/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNX1	25,000,000	0.00	2.36	100.00	-	25,000,000
Maturity	1/31/2019	1/31/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNX1	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/31/2019	1/31/2019	Commercial Paper	NATIXIS NY BRANCH	63873KNX1	50,000,000	0.00	2.36	100.00	-	50,000,000
Maturity	1/31/2019	1/31/2019	U.S. Treasuries	US TREASURY	912828V56	50,000,000	1.13	2.03	100.00	281,250	50,281,250
Subtotals						**$2,194,765,000**	**0.31**	**2.35**	**$ -**	**$ 1,810,277**	**$2,196,575,277**
Interest	1/1/2019	7/1/2019	Federal Agencies	FEDERAL HOME LOAN BANK	3130AC7C2	$ 15,000,000	1.40	1.37	0.00	0.00	$ 105,000
Interest	1/1/2019	7/1/2019	State/Local Agencies	UNIV OF CALIFORNIA CA RE	91412GSB2	4,180,000	1.80	1.57	0.00	0.00	37,536
Interest	1/1/2019	7/1/2019	State/Local Agencies	UNIV OF CALIFORNIA CA RE	91412GSB2	16,325,000	1.80	1.56	0.00	0.00	146,599
Interest	1/1/2019	10/1/2019	Federal Agencies	FARMER MAC	3132X0KH3	50,000,000	2.41	2.41	0.00	0.00	307,433
Interest	1/2/2019	3/1/2019	Supranationals	INTERNATIONAL FINANCE CO	45950VLM6	50,000,000	2.35	2.35	0.00	0.00	98,000
Interest	1/2/2019	4/1/2019	Negotiable CDs	ROYAL BANK OF CANADA NY	78012UCE3	50,000,000	2.83	2.83	0.00	0.00	117,885
Interest	1/2/2019	5/1/2019	Negotiable CDs	ROYAL BANK OF CANADA NY	78012UDL6	35,000,000	2.72	2.72	0.00	0.00	79,311
Interest	1/2/2019	12/2/2019	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EGN43	50,000,000	2.51	2.51	0.00	0.00	108,037
Interest	1/2/2019	11/2/2020	Federal Agencies	FARMER MAC	3132X0KR1	25,000,000	2.55	2.55	0.00	0.00	54,880
Interest	1/2/2019	7/1/2021	Federal Agencies	FEDERAL HOME LOAN BANK	3130ACQ98	100,000,000	2.08	2.08	0.00	0.00	1,040,000
Interest	1/2/2019	7/1/2022	Federal Agencies	FREDDIE MAC	3134GBW99	100,000,000	2.24	2.24	0.00	0.00	1,120,000
Interest	1/3/2019	4/3/2019	Negotiable CDs	BANK OF NOVA SCOTIA HOUS	06417GR42	50,000,000	2.82	2.82	0.00	0.00	121,384
Interest	1/3/2019	1/3/2020	Federal Agencies	FARMER MAC	3132X0PG0	50,000,000	2.42	2.42	0.00	0.00	104,162
Interest	1/4/2019	6/4/2019	Negotiable CDs	ROYAL BANK OF CANADA NY	78012UDX0	50,000,000	2.65	2.65	0.00	0.00	113,965

Investment Transactions

Pooled Fund

Transaction	Settle Date	Maturity	Type of Investment	Issuer Name	CUSIP	Par Value	Coupon	YTM	Price	Interest	Transaction
Interest	1/5/2019	7/5/2019	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EGJX4	35,370,000	1.08	2.46	0.00	0.00	190,998
Interest	1/6/2019	1/6/2020	Federal Agencies	FREDDIE MAC	3134G9VR5	25,000,000	1.50	1.50	0.00	0.00	187,500
Interest	1/6/2019	4/6/2020	Federal Agencies	FANNIE MAE	3136G3TK1	25,000,000	1.75	1.75	0.00	0.00	218,750
Interest	1/6/2019	7/6/2020	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EHQB2	25,000,000	1.55	1.56	0.00	0.00	193,750
Interest	1/7/2019	3/5/2019	Negotiable CDs	WESTPAC BANKING CORP NY	96121T7B8	50,000,000	2.71	2.71	0.00	0.00	124,157
Interest	1/7/2019	6/7/2019	Negotiable CDs	DEXIA CREDIT LOCAL SA NY	25215FDL5	40,000,000	2.66	2.66	0.00	0.00	91,734
Interest	1/9/2019	8/9/2019	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EGED3	25,000,000	2.57	2.57	0.00	0.00	55,368
Interest	1/9/2019	8/9/2019	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EGED3	25,000,000	2.57	2.57	0.00	0.00	55,368
Interest	1/10/2019	1/10/2020	Medium Term Notes	TOYOTA MOTOR CREDIT CORP	89236TEJ0	20,000,000	2.20	2.25	0.00	0.00	220,000
Interest	1/12/2019	7/12/2019	Federal Agencies	FREDDIE MAC	3134G9YR2	50,000,000	2.00	2.00	0.00	0.00	500,000
Interest	1/13/2019	7/13/2020	Federal Agencies	FEDERAL HOME LOAN BANK	3130ABNV4	50,000,000	1.75	1.75	0.00	0.00	437,500
Interest	1/13/2019	7/13/2020	Federal Agencies	FREDDIE MAC	3134GBXV9	50,000,000	1.85	1.85	0.00	0.00	462,500
Interest	1/17/2019	1/17/2020	Federal Agencies	FANNIE MAE	3136G4KQ5	1,000,000	1.65	1.84	0.00	0.00	8,250
Interest	1/17/2019	1/17/2020	Federal Agencies	FANNIE MAE	3136G4KQ5	31,295,000	1.65	1.84	0.00	0.00	258,184
Interest	1/20/2019	8/20/2019	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EGX67	50,000,000	2.59	2.59	0.00	0.00	111,519
Interest	1/20/2019	7/20/2021	Supranationals	INTERNATIONAL FINANCE CO	45950KCJ7	12,135,000	1.13	2.97	0.00	0.00	68,320
Interest	1/21/2019	12/21/2020	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EGX75	50,000,000	2.67	2.67	0.00	0.00	114,932
Interest	1/23/2019	7/23/2021	Supranationals	INTL BK RECON & DEVELOP	459058GH0	50,000,000	2.76	2.85	0.00	0.00	680,000
Interest	1/24/2019	1/24/2020	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EJLU1	25,000,000	2.42	2.43	0.00	0.00	302,500
Interest	1/24/2019	1/24/2020	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EJLU1	25,000,000	2.42	2.43	0.00	0.00	302,500
Interest	1/24/2019	12/24/2020	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EFTX5	100,000,000	2.83	2.83	0.00	0.00	244,017
Interest	1/25/2019	2/25/2019	Federal Agencies	FEDERAL FARM CREDIT BANK	3133EGBU8	50,000,000	2.68	2.68	0.00	0.00	115,443
Interest	1/25/2019	1/25/2021	Supranationals	INTERNATIONAL FINANCE CO	45950KCM0	50,000,000	2.25	2.35	0.00	0.00	562,500
Interest	1/26/2019	7/26/2019	Supranationals	INTL BK RECON & DEVELOP	459058EV1	10,000,000	1.25	2.47	0.00	0.00	62,500
Interest	1/26/2019	7/26/2023	Federal Agencies	FREDDIE MAC	3134GSRZ0	50,000,000	3.35	3.35	0.00	0.00	837,500
Interest	1/27/2019	7/27/2022	Federal Agencies	FREDDIE MAC	3134GBXU1	31,575,000	2.25	2.25	0.00	0.00	355,219
Interest	1/30/2019	7/30/2020	Federal Agencies	FANNIE MAE	3135G0T60	50,000,000	1.50	1.60	0.00	0.00	375,000
Interest	1/31/2019	2/1/2019	Money Market Funds	DREYFUS GOVERN CASH MGMT	262006208	10,126,262	2.31	2.31	0.00	0.00	22,390
Interest	1/31/2019	2/1/2019	Money Market Funds	FEDERATED GOVERNMENT OBL	608919718	19,335,657	2.30	2.30	0.00	0.00	43,267
Interest	1/31/2019	2/1/2019	Money Market Funds	BLACKROCK LIQ INST GOV F	09248U718	10,222,551	2.27	2.27	0.00	0.00	38,325
Interest	1/31/2019	2/1/2019	Money Market Funds	FIDELITY INST GOV FUND	31607A703	185,881,835	2.33	2.33	0.00	0.00	137,862
Interest	1/31/2019	2/1/2019	Money Market Funds	MORGAN STANLEY INST GOVT	61747C707	135,655,096	2.32	2.31	0.00	0.00	310,471
Subtotals						**$2,013,101,402**	**2.33**	**2.38**	**$ -**	**$ -**	**$ 11,242,517**

Grand Totals	**68**	**Purchases**
	(13)	**Sales**
	(55)	**Maturities / Calls**
	0	**Change in number of positions**

BOS-11

The Police Commission

CITY AND COUNTY OF SAN FRANCISCO

February 14, 2019

Honorable Board of Supervisors
City Hall, Room 244
#1 Dr. Carlton B. Goodlett Place
San Francisco, CA 94102

Dear Honorable Supervisors:

At the meeting of the Police Commission on Wednesday, February 13, 2018, the following resolution was adopted:

RESOLUTION NO. 19-12

APPROVAL OF PROPOSED SFPD BUDGET FOR FISCAL YEAR 2019/2020

RESOLVED, that the Police Commission hereby approves proposed SFPD Budget for Fiscal Year 2019/2020.

AYES: Commissioners Hirsch, Taylor, DeJesus, Mazzucco, Hamasaki, Elias, Brookter

Very truly yours,

Rachael Kilshaw

Sergeant Rachael Kilshaw
Secretary
San Francisco Police Commission

949/rct

cc: Executive Director C. McGuire/Fiscal

SAN FRANCISCO POLICE DEPARTMENT HEADQUARTERS, 1245 3RD STREET, 6TH FLOOR, SAN FRANCISCO, CA 94158
(415) 837-7070 FAX (415) 575-6083 EMAIL: sfpd.commission@sfgov.org

From:	Board of Supervisors, (BOS)
To:	BOS-Supervisors; BOS Legislation, (BOS); Somera, Alisa (BOS)
Subject:	FW: SFPUC Declaration of Emergency
Date:	Tuesday, February 26, 2019 9:36:00 AM
Attachments:	Declaration_of_Emergency_Transmission_Line_2019.pdf

From: Scarpulla, John <JScarpulla@sfwater.org>
Sent: Friday, February 22, 2019 1:53 PM
To: Rosenfield, Ben (CON) <ben.rosenfield@sfgov.org>; Lane, Maura (CON) <maura.lane@sfgov.org>; Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>; Calvillo, Angela (BOS) <angela.calvillo@sfgov.org>; DaSilva, Christina (MYR) <christina.dasilva@sfgov.org>
Cc: Ellis, Juliet (PUC) <JEllis@sfwater.org>; Whitmore, Christopher (PUC) <CWhitmore@sfwater.org>; Sandler, Eric (PUC) <ESandler@sfwater.org>; Perl, Charles (PUC) <CPerl@sfwater.org>; Jacobo, Carlos (PUC) <cjacobo@sfwater.org>; Hom, Nancy (PUC) <NHom@sfwater.org>; GESSNER, FRANCESCA (CAT) <Francesca.Gessner@sfcityatty.org>; VEIT, JULIE (CAT) <Julie.Veit@sfcityatty.org>
Subject: SFPUC Declaration of Emergency

Hi all,

Please see attached for a SFPUC Declaration of Emergency for the damage of a Hetch Hetchy Water and Power's 230kV transmission line near Groveland, California, during a recent, large snowstorm.

Please let me know if you have any questions about this Declaration.

Best,
John

John Scarpulla
Policy & Government Affairs
San Francisco Public Utilities Commission
525 Golden Gate Ave., 13th Floor
San Francisco, CA 94102
jscarpulla@sfwater.org | 415-934-5782

San Francisco
Water Power Sewer
Operator of the Hetch Hetchy Regional Water System

525 Golden Gate Avenue, 13th Floor
San Francisco, CA 94102
T 415.554.3155
F 415.554.3161
TTY 415.554.3488

February 20, 2019

TO: Ann Moller Caen, Vice President

FROM: Harlan L. Kelly, Jr., General Manager HK

SUBJECT: Declaration of Emergency — 2019 February Transmission Line Incident

Under Chapter 6, Section 6.60, subdivision (b) of the Administrative Code of the City and County of San Francisco, I hereby declare an emergency on behalf of the Public Utilities Commission. This declaration provides notice to the Board of Supervisors, the Mayor, the Controller, and the Public Utilities Commission in accordance with the requirements of subdivision (b). This declaration requests approval from the President of the Public Utilities Commission for expenditures not to exceed $600,000 to perform the emergency repairs discussed below.

As described below, the present facts and circumstances meet the definition of an "actual emergency" under Section 6.60, subdivision (c) as a sudden, unforeseeable and unexpected occurrence, which requires immediate repairs to maintain essential public services.

On February 16, 2019, during a large snow storm, a tree fell into Hetch Hetchy Water and Power's 230kV transmission line near Big Creek Shaft Road near Groveland, California. The tree was located immediately next to but outside of the SFPUC right of way. The tree damaged about 1500 feet of conductor (all three phases) and at least one transmission tower.

Prior to hitting SFPUC's 230kV transmission line, the tree also fell into PG&E's distribution line affecting power distribution to customers near Groveland and power to the Groveland Community Services District's (GCSD) Big Creek Shaft facility. Big Creek Shaft is a diversion point for GCSD from the Hetch Hetchy Regional Water System (HHRWS). Because this emergency coincides with the interim repairs of Mountain Tunnel, this emergency is not currently impacting the GCSD water supply. PG&E has restored power to all but 6 customers. PG&E has one day of work to repair their distribution line that runs under SFPUC's transmission line before PG&E can restore power to the remaining customers. PG&E is waiting for SFPUC to repair its transmission line so that PG&E can safely make repairs to PG&E's distribution line.

Hetch Hetchy Water and Power activated its Incident Command System to manage the incident. This request for emergency declaration is necessary to authorize immediate procurement of contractor services to perform assessments, design services, and repairs to restore the 230kV system, which will make it possible for PG&E to repair the distribution power lines that run under SFPUC transmission lines. PG&E's distribution line outage is impacting 6 PG&E customers, who are currently without power, and power is needed to restore water service to GCSD once the Mountain Tunnel refill begins on March 4, 2019.

Finally, the SFPUC conveys water from Hetch Hetchy Reservoir through hydrogeneration units at Kirkwood Powerhouse before it flows into the Mountain Tunnel for delivery to the Regional Water System. In order to deliver water to the Bay Area, the water first flows through the hydrogeneration units at Kirkwood Power House; that hydroelectric power is conveyed to the Intake Switchyard and conveyed through transmission lines to the electric grid. An emergency bypass function at Kirkwood Powerhouse is available, but that system is meant for system redundancy and reliability in an emergency, not for long-term use that could damage the bypass infrastructure. As such, restoring the power transmission system is also required to allow for the hydrogeneration that provides water to upcountry and Regional Water System customers. The immediate and high-priority activities required include: (1) repair to transmission tower 116S, including repair of structural damage and replacement of insulators; (2) removal and replacement of 230kV conductor as needed (all three phases); and (3) potential repair of structural damage to adjacent towers 118S and 114S.

This request for emergency declaration is for resources to perform the necessary work beyond the capabilities of City forces as soon as possible. Work has already commenced under an existing contract of appropriate scope. However, that existing contract can only be amended by up to $170,000 without Commission action. Staff projects that the cost of the repair work will not exceed an additional $600,000.

Section 6.60, subdivision (b) permits the Department Head to execute the repairs necessitated by the emergency in the most expeditious manner. Since the estimated cost for the repairs (not-to-exceed $600,000) exceeds $250,000, Section 6.60, subdivision (d), requires the General Manager to obtain the approval of the President of the Public Utilities Commission prior to authorizing the commencement of the work. Because the Commission President resigned and a new President has not yet been elected, we are seeking your concurrence as Vice President. Section 6.60, subdivision (d) also requires the General Manager to obtain the approval of the Board of Supervisors.

In this case, the emergency does not permit the General Manager to obtain the required Board of Supervisors approval before the work is commenced. The SFPUC will seek that approval as soon as it is possible to do so by submitting a Resolution no later than 60 days following the date of issuance of this emergency declaration. Because the work will commence prior to obtaining Board of Supervisors approval, this Declaration also provides notice to the Controller of the work involved and the estimated cost thereof in accordance with the requirements of Section 6.60, subdivision (d).

CONCUR AND APPROVE:
Ann Moller Caen, Vice President
San Francisco Public Utilities Commission

cc:
Mayor

Board of Supervisors
Controller
Commissioner F. Vietor
Commissioner A. Moran
Commissioner I. Kwon
S. Ritchie

From:	Whitmore, Christopher
To:	Board of Supervisors, (BOS)
Subject:	CleanPowerSF Annual Report (FY 17-18) Pursuant to Ordinance 223-15
Date:	Monday, February 25, 2019 3:51:17 PM
Attachments:	image001.png CleanPowerSF Memorandum.pdf Annual Report_Attachment A.pdf Annual Report_Attachment B.pdf Annual Report_Attachment C.pdf Annual Report_Attachment D.pdf

Good afternoon –

Please see accept this email as electronic submission of the Fiscal Year 2017-18 Report on the CleanPowerSF Program, pursuant to Ordinance 223-15.

The following is a list of accompanying documents:

1. CleanPowerSF Memorandum
2. Attachment A – CleanPowerSF Audited Financial Statements (Annual Program Costs)
3. Attachment B – CleanPowerSF Rates Tables
4. Attachment C – CleanPowerSF – PG&E Joint Rate Mailers (2017 and 2018)
5. Attachment D – CleanPowerSF – PG&E Joint Rate Web Comparison (2017)

A hard copy of this report will be delivered to the Clerk's Office this afternoon.

Thank you,

Christopher Whitmore
Local Policy Analyst
Policy and Government Affairs, External Affairs
San Francisco Public Utilities Commission
415.934.3906 (t) | 415.693.8983 (c)
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San Francisco
Water Power Sewer
Services of the San Francisco Public Utilities Commission

San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

CleanPowerSF
Same Service • Cleaner Energy

525 Golden Gate Avenue, 7th Floor
San Francisco, CA 94102
T 415.554.0773
cleanpowersf@sfwater.org

MEMORANDUM

DATE: February 7, 2019

TO: Clerk of the Board of Supervisors

THROUGH: Harlan L. Kelly Jr., General Manager HK

FROM: Barbara Hale, Assistant General Manager, Power
Michael Hyams, Director, CleanPowerSF MHH

SUBJECT: Fiscal Year 2017-18 Report on the CleanPowerSF Program Pursuant to Ordinance 223-15

Pursuant to Ordinance 223-15, the San Francisco Public Utilities Commission (SFPUC) hereby provides the following report to you on the CleanPowerSF program. Ordinance 223-15 requires the SFPUC to submit annual reports to the Board of Supervisors, detailing "program costs, the rates charged by the SFPUC to CleanPowerSF customers to recover the costs, and a comparison of those CleanPowerSF rates to PG&E rates."

This report addresses the information requested in Ordinance 223-15 and provides an update on the status of program enrollment.

Program Background and Update

CleanPowerSF is San Francisco's Community Choice Aggregation (CCA) program. Authorized under State law, the CCA program allows cities and counties to partner with their investor-owned utility (PG&E in San Francisco) to deliver cleaner energy to residents and businesses.

Under CleanPowerSF, PG&E continues to maintain the power grid, respond to outages and collect payment. CleanPowerSF replaces the generation component on a participating customer's PG&E energy bill and supplies electricity with a higher renewable energy content than PG&E.

Today, CleanPowerSF offers San Franciscans with two options for their electricity supply:

- *Green:* The *Green* product is CleanPowerSF's default electricity supply offering. It features at least 40% renewable energy and prices that are competitive with PG&E's default electricity offering (33% renewable in 2017).

- *SuperGreen:* The *SuperGreen* product is CleanPowerSF's elective 100% renewable energy option. Any electricity customer in San Francisco can "opt-up" to *SuperGreen* service for a small per kilowatt-hour premium. The premium for residential customers is currently 1.5 cents per kilowatt-hour (kWh), amounting to approximately $4.15 per month of additional charges for the average San Francisco residential customer's electricity bill.

Fiscal Year 2017-2018 marked CleanPowerSF's second complete fiscal year of operation and included quarterly enrollments comprised of elective "Early Enroll" and Net Energy Metering (NEM) customers. Enrollment statistics at end of FY 2017-18 can be found in Table 1 below. In addition to conducting the quarterly enrollments and continuing to serve existing customers, CleanPowerSF staff spent the second half of FY 2017-18 preparing for its enrollment scheduled for July 2018, which was comprised primarily of about 25,000 commercial accounts.

Table 1: Summary of Program Enrollment Statistics (as of June 30, 2018)

Category	Number of Accounts
Total Enrolled	87,543
Enrolled - Inactive[1]	3,108
Opted-Out	2,822
Enrolled - Active	81,613
Green – 40+% Renewable	78,192
SuperGreen - 100% Renewable	3,421

At end of FY 2017-18, the CleanPowerSF program had enrolled approximately 22.5% of the potential CleanPowerSF accounts within the City and County of San Francisco. As of submission of this report, on February 7, 2019, the program has enrolled 29% of the eligible electricity accounts in San Francisco.

[1] "Inactive" refers to a physical service location that was enrolled by CleanPowerSF but was unoccupied or did not have an active PG&E electric service account at time of reporting

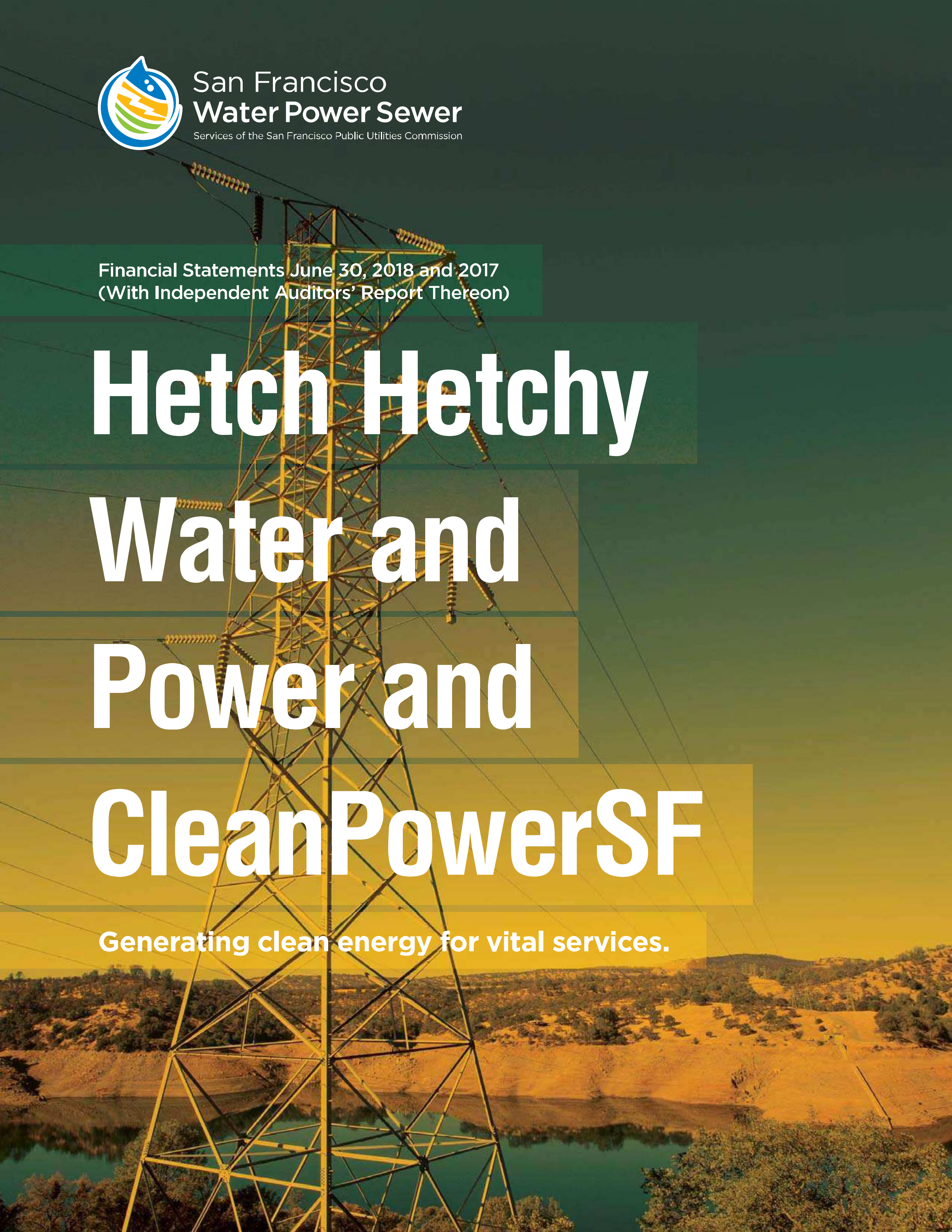
Attachment A: CleanPowerSF Audited Financial Statements (Annual Program Costs)

San Francisco
Water Power Sewer
Services of the San Francisco Public Utilities Commission

Financial Statements June 30, 2018 and 2017
(With Independent Auditors' Report Thereon)

Hetch Hetchy Water and Power and CleanPowerSF

Generating clean energy for vital services.



HETCH HETCHY WATER AND POWER AND CLEANPOWERSF

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KPMG LLP
Suite 1400
55 Second Street
San Francisco, CA 94105

Independent Auditors' Report

The Honorable Mayor and Board of Supervisors
City and County of San Francisco:

Report on the Financial Statements

We have audited the accompanying financial statements of the business-type activities of each fund of Hetch Hetchy Water and Power and CleanPowerSF (Hetch Hetchy), an enterprise fund of the City and County of San Francisco, California (the City), as of and for the years ended June 30, 2018 and 2017, and the related notes to the financial statements, which collectively comprise the Hetch Hetchy's basic financial statements as listed in the tables of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with U.S. generally accepted accounting principles; 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.

Auditors' Responsibility

Our responsibility is to express opinions 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 the standards applicable to financial audits contained in *Governmental 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 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 auditors' 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 entity'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 opinions on the effectiveness of the entity's internal control. Accordingly, we express no such opinions. 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 opinions.

Opinions

In our opinions, the financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities of each fund of Hetch Hetchy as of June 30, 2018 and 2017 and the respective changes in financial position and, where applicable, cash flows thereof for the years then ended in accordance with U.S. generally accepted accounting principles.

KPMG

Emphasis of Matter

As discussed in Note 1, the financial statements of Hetch Hetchy are intended to present the financial position, the changes in financial position and, where applicable, cash flows of only that portion of the City that is attributable to the transactions of Hetch Hetchy. They do not purport to, and do not, present fairly the financial position of the City as of June 30, 2018 and 2017, the changes in its financial position, or, where applicable, its cash flows for the years then ended in accordance with U.S. generally accepted accounting principles. Our opinions are not modified with respect to this matter.

As discussed in Note 2(s) to the financial statements, in 2018, Hetch Hetchy adopted Government Accounting Standards Board (GASB) Statement No. 75, *Accounting and Financial Reporting for Other Postemployment Benefits Other than Pensions*. The July 1, 2017 beginning net position has been restated for the retrospective application of this new accounting guidance.

Our opinions are not modified with respect to these matters.

Other Matters

Required Supplementary Information

U.S. generally accepted accounting principles require that the management's discussion and analysis on pages 3 through 32 be presented to supplement the basic financial statements. Such information, although not a 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 about 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 opinions or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express opinions or provide any assurance.

Other Reporting Required by *Government Auditing Standards*

In accordance with *Government Auditing Standards*, we have also issued our report dated January 25, 2019 on our consideration of the Hetch Hetchy's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide opinions on the effectiveness of the Hetch Hetchy's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Hetch Hetchy's internal control over financial reporting and compliance.

KPMG LLP

San Francisco, California
January 25, 2019

This section presents management's analysis of San Francisco Hetch Hetchy Water and Power and CleanPowerSF Enterprise's (Hetch Hetchy or the Enterprise) financial condition and activities as of and for fiscal year ended June 30, 2018 and 2017. Management's Discussion and Analysis (MDA) is intended to serve as an introduction to the Enterprise's financial statements. This information should be read in conjunction with the audited financial statements that follow this section. All dollar amounts, unless otherwise noted, are expressed in thousands of dollars.

In May 2016, San Francisco Public Utilities Commission (SFPUC or the Commission) launched CleanPowerSF, a Community Choice Aggregation (CCA) program into operation, pooling the electricity demands of their residents and businesses for the purpose of buying electricity on behalf of those customers. CleanPowerSF provides San Francisco with new clean energy alternatives, with its objectives to reduce greenhouse gas emissions, and to provide the City and County of San Francisco's (the City) energy consumers with renewable electricity supplies at competitive rates. The SFPUC intends CleanPowerSF to be financially independent, with ability to set rates and charges with adequate revenues, and to issue debt to support its operations and future projects. CleanPowerSF is discretely presented as a fund of the Enterprise starting fiscal year 2017.

The information in this MDA is presented under the following headings:

- Organization and Business
- Overview of the Financial Statements
- Financial Analysis
- Capital Assets
- Debt Administration
- Rates and Charges
- Request for Information

Organization and Business

SFPUC is a department of the City that is responsible for the maintenance, operation, and development of three utility enterprises: Water, Wastewater, and Hetch Hetchy. The Enterprise was established as a result of the Raker Act of 1913, which granted water and power resource rights-of-way on the Tuolumne River in Yosemite National Park and the Stanislaus National Forest to the City. The Enterprise operates the Hetch Hetchy project, which provides both electricity generation and upcountry water service; and is engaged in the collection and conveyance of approximately 85% of the regional system's water supply and in the generation and transmission of electricity.

In normal rain years, 85% of San Francisco's drinking water starts out as snow falling on 459 square miles of watershed land in Yosemite National Park, and the City may supplement water supply from an additional 191 square miles of watershed in the Stanislaus National Forest during extremely dry years. As the snow melts, it collects in Hetch Hetchy's storage reservoirs. As water flows by gravity through over 150 miles of pipelines and tunnels, it turns the turbines in three hydroelectric powerhouses, generating approximately 1.4 billion kilowatt hours of electricity per year. The electricity travels over 160 miles of transmission and distribution lines from the upcountry powerhouses to the San Francisco Bay Area. Approximately 81% of the electricity generated by Hetchy Power is used to provide electric service to the City's municipal customers (including the San Francisco Municipal Transportation Agency, Recreation and Parks Department, the Port of San Francisco, San Francisco International Airport and its tenants, San Francisco General Hospital, City streetlights, Moscone Convention Center, and the Water and Wastewater Enterprises). The majority of the remaining 19% of electricity generated is sold to CleanPowerSF and other publicly owned utilities.

Hetch Hetchy

Hetch Hetchy provides reliable, high quality water and electric energy to the City and other customers, protects watershed resources in cooperation with Federal agencies, operates and maintains facilities to a high standard of safety and reliability, and maximizes revenue opportunities within approved levels of risk.

Hetch Hetchy, a stand-alone enterprise is comprised of three funds: 1) Hetch Hetchy Water (Hetchy Water) upcountry operations and water system; 2) Hetch Hetchy Power (Hetchy Power), also referred to as the Power Enterprise, which is wholly contained within the Hetch Hetchy fund; and 3) CleanPowerSF, which is an enterprise fund to aggregate the buying power of customers within San Francisco to purchase renewable energy sources or clean power, is reported as a separate fund of Hetch Hetchy. A number of the facilities are joint assets and used for both water and power generation.

Hetchy Water

For efficiency and to streamline the coordination of upcountry water and power operations, Hetchy Water operates upcountry and joint-asset facilities, managing resources in an environmentally responsible manner to a high standard of safety and reliability while meeting regulatory requirements. It is responsible for operating the Hetch Hetchy Reservoir, the main source of water for the Hetch Hetchy system. Hetchy Water operates, maintains, and improves water and power facilities, smaller dams and reservoirs, water transmission systems, power generation facilities, and power transmission assets, including transmission lines to the Newark substation. Hetchy Water delivers high quality water from upcountry downhill to the Bay Area while optimizing the resulting generation of clean hydropower as water is transported through the system. It maintains land and properties consistent with public health and neighborhood concerns.

Hetchy Power

The core business of Hetchy Power, as a municipal department, is to provide adequate and reliable supplies of electric power to meet the electricity needs of City and County of San Francisco's customers, and to offer, when available, power for the municipal loads and agricultural pumping demands of the Modesto Irrigation District (MID) consistent with prescribed contractual obligations and federal law.

Hetchy Power's portfolio consists of hydroelectric generation, onsite solar at SFPUC and other City facilities, generation using bio-methane produced at SFPUC wastewater treatment facilities, and third-party purchases. Consistent with its commitment to the development of cleaner and greener power, and to address environmental concerns and community objectives, Hetchy Power continues to evaluate and expand its existing resource base to include additional renewables, distributed generation, demand management, and energy efficiency programs. As part of its mission and core functions, Hetchy Power provides reliable energy services at reasonable cost to customers, with attention to environmental effects and community concerns.

Hetch Hetchy Joint Water and Power

A portion of Hetch Hetchy's operating budget, capital program, and assets, provides benefit to both Hetchy Power and Hetchy Water. This is commonly referred to as joint costs and joint assets. Both operating and capital costs that jointly benefit both funds are allocated 55% to Hetchy Power and 45% to Hetchy Water, as has historically been done by the SFPUC.

CleanPowerSF

The core business of CleanPowerSF is to provide greener electricity generation to residential and commercial consumers in San Francisco. Through CleanPowerSF, SFPUC seeks to achieve several complementary goals, including affordable and competitive electricity generation rates, a diverse electricity resource portfolio that is comprised of renewable and other clean sources of supply, and high-quality customer service.

Overview of the Financial Statements

Hetch Hetchy's financial statements include the following:

Statements of Net Position present information on Hetch Hetchy's assets, deferred outflows, liabilities, and deferred inflows as of year-end, with the difference reported as net position. Over time, increases or decreases in net position may serve as a useful indicator of whether the financial position of Hetch Hetchy is improving or worsening.

While the *Statements of Net Position* provide information about the nature and amount of resources and obligations as of year-end, the *Statements of Revenues, Expenses, and Changes in Net Position* present the results of Hetch Hetchy's operations over the course of the fiscal year and information as to how the net position changed during the year. These statements can be used as an indicator of the extent to which Hetch Hetchy has successfully recovered its costs through user fees and other charges. All changes in net position are reported during the period in which the underlying event giving rise to the change occurs, regardless of the timing of the related cash flows. Thus, revenues and expenses are reported in these statements from some items that will result in cash flows in future fiscal periods, such as delayed collection of operating revenues and the expenses of employee earned but unused vacation leave.

The *Statements of Cash Flows* present changes in cash and cash equivalents resulting from operational, capital, non-capital, and investing activities. These statements summarize the annual flow of cash receipts and cash payments, without consideration of the timing of the event giving rise to the obligation or receipt and exclude non-cash accounting measures of depreciation or amortization of assets.

The *Notes to Financial Statements* provide information that is essential to a full understanding of the financial statements that is not presented on the face of the financial statements.

Financial Analysis

Financial Highlights for Fiscal Year 2018

Hetch Hetchy

- Total assets of Hetch Hetchy exceeded total liabilities by $592,516, excluding interfund payable and receivable of $5,601 related to working capital loan between Hetchy Power and CleanPowerSF.

- Net position increased by $29,016 or 5.0% during the fiscal year.

- Capital assets, net of accumulated depreciation and amortization, increased by $34,701 or 7.8% to $479,422.

(Continued)

- Operating revenues, excluding interest and investment income, and other non-operating revenues, increased by $1,984 or 1.0% to $191,963.
- Operating expenses, excluding interest expenses, other non-operating expenses, and amortization of premium, discount, and issuance costs, increased by $3,485 or 1.8% to $197,615.

Hetchy Water

- Total assets of Hetchy Water exceeded total liabilities by $185,276.
- Net position increased by $23,434 or 13.9% during the fiscal year.
- Capital assets, net of accumulated depreciation and amortization, increased by $12,068 or 9.4% to $139,799.
- Operating revenues, excluding interest and investment income, and other non-operating revenues, decreased by $1,590 or 4.5% to $33,560.
- Operating expenses, excluding other non-operating expenses, decreased by $10,307 or 20.6% to $39,792.

Hetchy Power

- Total assets of Hetchy Power exceeded total liabilities by $398,663.
- Net position increased by $4,940 or 1.2% during the fiscal year.
- Capital assets, net of accumulated depreciation and amortization, increased by $22,633 or 7.1% to $339,623.
- Operating revenues, excluding interest and investment income, and other non-operating revenues, decreased by $2,127 or 1.8% to $118,835.
- Operating expenses, excluding interest expenses, other non-operating expenses, and amortization of premium, discount, and issuance costs, increased by $2,460 or 2.1% to $119,395.

CleanPowerSF

- Total assets of CleanPowerSF exceeded total liabilities by $8,577.
- Net position increased by $642 or 7.8% during the fiscal year.
- CleanPowerSF had no capital assets, net of accumulated depreciation and amortization as of June 30, 2018.
- Operating revenues, excluding interest and investment income and other non-operating revenues increased by $5,701 or 16.8% to $39,568.

- Operating expenses, excluding interest expense increased by $11,332 or 41.8% to $38,428, of which $3,501 was electricity purchased from Hetchy Power.

Financial Highlights for Fiscal Year 2017

Hetch Hetchy

- Total assets of Hetch Hetchy exceeded total liabilities by $553,101, excluding interfund payable and receivable of $7,250 related to working capital loan between Hetchy Power and CleanPowerSF.
- Net position increased by $65,646 or 12.8% during the fiscal year.
- Capital assets, net of accumulated depreciation and amortization, increased by $40,472 or 10% to $444,721.
- Operating revenues, excluding interest and investment income, and other non-operating revenues, increased by $25,243 or 15.3% to $189,979.
- Operating expenses, excluding interest expenses, other non-operating expenses, and amortization of premium, discount, and issuance costs, increased by $45,635 or 30.7% to $194,130.

Hetchy Water

- Total assets of Hetchy Water exceeded total liabilities by $157,035.
- Net position increased by $45,645 or 37.2% during the fiscal year.
- Capital assets, net of accumulated depreciation and amortization, increased by $13,864 or 12.2% to $127,731.
- Operating revenues, excluding interest and investment income, and other non-operating revenues, decreased by $3,592 or 9.3% to $35,150.
- Operating expenses, excluding other non-operating expenses, increased by $13,563 or 37.1% to $50,099.

Hetchy Power

- Total assets of Hetchy Power exceeded total liabilities by $387,848.
- Net position increased by $11,783 or 3.0% during the fiscal year.
- Capital assets, net of accumulated depreciation and amortization, increased by $26,608 or 9.2% to $316,990.
- Operating revenues, excluding interest and investment income, and other non-operating revenues, decreased by $5,032 or 4.0% to $120,962.

- Operating expenses, excluding interest expenses, other non-operating expenses, and amortization of premium, discount, and issuance costs, increased by $4,976 or 4.4% to $116,935.

CleanPowerSF

- Total assets exceeded total liabilities by $8,218.

- CleanPowerSF had no capital assets, net of accumulated depreciation and amortization as of June 30, 2017.

- Operating revenues, excluding interest and investment income and other non-operating revenues were $33,867.

- Operating expenses, excluding interest expense were $27,096, of which $1,893 was electricity purchased from Hetchy Power.

(Dollars in thousands, unless otherwise stated)

Financial Position

The following tables summarize Hetch Hetchy's changes in net position.

In fiscal year 2018, the Enterprise adopted the provisions of Governmental Accounting Standards Board Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*. As restatement of all prior periods is not practical, the cumulative effect of applying this statement is reported as a restatement of beginning net position as of July 1, 2017 (see New Accounting Standards Adopted in Fiscal Year 2018 in Significant Accounting Policies, Note 2(t)).

Table 1A - Consolidated Hetch Hetchy
Comparative Condensed Net Position
June 30, 2018, 2017, and 2016

	2018 *	2017 *	2016 *	2018-2017 Change	2017-2016 Change
Total assets:					
Current and other assets	$ 350,263	336,106	270,562	14,157	65,544
Capital assets, net of accumulated depreciation and amortization	479,422	444,721	404,249	34,701	40,472
Total assets	829,685	780,827	674,811	48,858	106,016
Deferred outflows of resources:					
Pensions	16,963	28,132	8,324	(11,169)	19,808
Other post-employment benefits	1,974	—	—	1,974	—
Total deferred outflows of resources	18,937	28,132	8,324	(9,195)	19,808
Liabilities:					
Current liabilities:					
Bonds	2,480	2,437	1,692	43	745
Certificates of participation	348	331	315	17	16
Commercial paper	20,280	20,058	—	222	20,058
Other liabilities	44,165	28,042	29,205	16,123	(1,163)
Subtotal current liabilities	67,273	50,868	31,212	16,405	19,656
Long-term liabilities:					
Bonds	52,761	55,463	58,418	(2,702)	(2,955)
Certificates of participation	14,233	14,607	14,966	(374)	(359)
Other liabilities	102,902	106,788	57,247	(3,886)	49,541
Subtotal long-term liabilities	169,896	176,858	130,631	(6,962)	46,227
Total liabilities:					
Bonds	55,241	57,900	60,110	(2,659)	(2,210)
Certificates of participation	14,581	14,938	15,281	(357)	(343)
Commercial paper	20,280	20,058	—	222	20,058
Other liabilities	147,067	134,830	86,452	12,237	48,378
Total liabilities	237,169	227,726	161,843	9,443	65,883
Deferred inflows of resources:					
Related to pensions	4,119	2,973	8,678	1,146	(5,705)
Other post-employment benefits	58	—	—	58	—
Total deferred inflows of resources	4,177	2,973	8,678	1,204	(5,705)
Net position:					
Net investment in capital assets	410,717	388,412	369,764	22,305	18,648
Restricted for debt service	834	485	306	349	179
Restricted for capital projects	11,712	—	1,409	11,712	(1,409)
Unrestricted	184,013	189,363	141,135	(5,350)	48,228
Total net position	$ 607,276	578,260	512,614	29,016	65,646

*Eliminated interfund payable and receivable of $5,601, $7,250 and $8,000 working capital loan between Hetchy Power and CleanPowerSF in fiscal years 2018, 2017 and 2016, respectively.

(Dollars in thousands, unless otherwise stated)

Table 1B - Hetchy Water
Comparative Condensed Net Position
June 30, 2018, 2017, and 2016

	2018	2017	2016	2018-2017 Change	2017-2016 Change
Total assets:					
Current and other assets	$ 97,578	80,350	37,195	17,228	43,155
Capital assets, net of accumulated depreciation and amortization	139,799	127,731	113,867	12,068	13,864
Total assets	237,377	208,081	151,062	29,296	57,019
Deferred outflows of resources:					
Pensions	7,488	12,659	3,746	(5,171)	8,913
Other post-employment benefits	870	—	—	870	—
Total deferred outflows of resources	8,358	12,659	3,746	(4,301)	8,913
Liabilities:					
Current liabilities	8,978	6,293	4,638	2,685	1,655
Long-term liabilities	43,123	44,753	23,554	(1,630)	21,199
Total liabilities	52,101	51,046	28,192	1,055	22,854
Deferred inflows of resources:					
Related to pensions	1,818	1,338	3,905	480	(2,567)
Other post-employment benefits	26	—	—	26	—
Total deferred inflows of resources	1,844	1,338	3,905	506	(2,567)
Net position:					
Net investment in capital assets	139,799	127,731	113,867	12,068	13,864
Restricted for capital projects	11,712	—	1,409	11,712	(1,409)
Unrestricted	40,279	40,625	7,435	(346)	33,190
Total net position	$ 191,790	168,356	122,711	23,434	45,645

(Dollars in thousands, unless otherwise stated)

Table 1C - Hetchy Power
Comparative Condensed Net Position
June 30, 2018, 2017, and 2016

	2018 *	2017 *	2016 **	2018-2017 Change	2017-2016 Change
Total assets:					
Current and other assets	$ 238,023	243,406	233,367	(5,383)	10,039
Capital assets, net of accumulated depreciation and amortization	339,623	316,990	290,382	22,633	26,608
Total assets	577,646	560,396	523,749	17,250	36,647
Deferred outflows of resources:					
Pensions	9,152	15,473	4,578	(6,321)	10,895
Other post-employment benefits	1,064	—	—	1,064	—
Total deferred outflows of resources	10,216	15,473	4,578	(5,257)	10,895
Liabilities:					
Current liabilities:					
Bonds	2,480	2,437	1,692	43	745
Certificates of participation	348	331	315	17	16
Commercial paper	20,280	20,058	—	222	20,058
Other liabilities	30,935	17,717	24,567	13,218	(6,850)
Subtotal current liabilities	54,043	40,543	26,574	13,500	13,969
Long-term liabilities:					
Bonds	52,761	55,463	58,418	(2,702)	(2,955)
Certificates of participation	14,233	14,607	14,966	(374)	(359)
Other liabilities	57,946	61,935	33,693	(3,989)	28,242
Subtotal long-term liabilities	124,940	132,005	107,077	(7,065)	24,928
Total liabilities:					
Bonds	55,241	57,900	60,110	(2,659)	(2,210)
Certificates of participation	14,581	14,938	15,281	(357)	(343)
Commercial paper	20,280	20,058	—	222	20,058
Other liabilities	88,881	79,652	58,260	9,229	21,392
Total liabilities	178,983	172,548	133,651	6,435	38,897
Deferred inflows of resources:					
Related to pensions	2,222	1,635	4,773	587	(3,138)
Other post-employment benefits	31	—	—	31	—
Total deferred inflows of resources	2,253	1,635	4,773	618	(3,138)
Net position:					
Net investment in capital assets	270,918	260,681	255,897	10,237	4,784
Restricted for debt service	834	485	306	349	179
Unrestricted	134,874	140,520	133,700	(5,646)	6,820
Total net position	$ 406,626	401,686	389,903	4,940	11,783

* Included $5,601 and $7,250 working capital loan to CleanPowerSF in fiscal years 2018 and 2017, respectively.
**CleanPowerSF was presented as part of Hetchy Power in fiscal year 2016.

Table 1D - CleanPowerSF
Comparative Condensed Net Position
June 30, 2018 and 2017

	2018	2017	2018-2017 Change
Total assets:			
Current and other assets	$ 20,263	19,600	663
Total assets	20,263	19,600	663
Deferred outflows of resources:			
Pensions	323	—	323
Other post-employment benefits	40	—	40
Total deferred outflows of resources	363	—	363
Liabilities:			
Current liabilities	4,252	6,032	(1,780)
Long-term liabilities	7,434	5,350	2,084
Total liabilities	11,686 *	11,382 *	304
Deferred inflows of resources:			
Related to pensions	79	—	79
Other post-employment benefits	1	—	1
Total deferred inflows of resources	80	—	80
Net position:			
Unrestricted	8,860	8,218	642
Total net position	$ 8,860	8,218	642

*Included $5,601 and $7,250 working capital loan from Hetchy Power in fiscal years 2018 and 2017, respectively.

Net Position, Fiscal Year 2018

2018 Moccasin Storm

On March 22, 2018, the Moccasin Dam and Reservoir and surrounding areas in the town of Moccasin, Tuolumne County, experienced significant rainfall and subsequent flooding. The SFPUC activated its Emergency Action Plan and notified responsible oversight agencies. On April 19, 2018, the California State Governor issued a State of Emergency Proclamation as the storm event caused widespread damage to several counties in the State. Tuolumne County is identified as an affected county. Hetch Hetchy Enterprise sustained considerable damage to its Moccasin-area water supply, drainage, and power generation assets. Shortly after the Governor's Emergency Proclamation, SFPUC de-activated its Emergency Action Plan and shifted to cost recovery activities.

As of June 30, 2018, the emergency, clean up, repair and construction costs related to the 2018 Moccasin Storm totaled $4,094. Of this, $3,687 was capital project related and capitalized to construction work in progress (See Table 3B). $407 was emergency and cleanup costs and has been expensed. Hetchy Water and Hetchy Power impairment loss were $177 and $118, respectively, for a total of $295, which was reported under operating expenses in the Statements of Revenues, Expenses, and Change in Net Position.

Hetch Hetchy

Hetch Hetchy's net position of $607,276 increased by $29,016 or 5.0% during the year (see Table 1A). Current and other assets were $350,263, a $14,157 or 4.2% increase from prior year with elimination of a $5,601 working capital loan from Hetchy Power to CleanPowerSF. The increase was attributed to $12,145 in cash and investment with City Treasury and outside City Treasury mainly due to $30,000 transfer from the Water Enterprise to fund upcountry water projects, $3,151 increase in prepaid charges, advances, and other receivables, of which $2,803 from vendor prepayments, $287 from receivables for Distributed Antenna System (DAS), $81 from Rim Fire insurance recoveries receivables, and $35 from other receivables for CleanPowerSF related to electricity sales, offset by decreases of $21 in custom work receivables for the Sunnydale Housing projects, $18 in payroll credits, and $16 from advance paid to the Recreation and Parks Department for the Civic Center Garage. Interest receivables increased by $608 as a result of higher interest rates, and $16 in grant receivables.

These increases were offset by decreases of $1,299 in charges for services receivables due primarily to $2,040 decrease in power sales to MID, offset by an increase of $958 in San Francisco Port tenants receivables due to pending collections, $464 repayments in due from other City departments including $677 from Mayor's Energy Conservation Account, $387 from CleanPowerSF for electricity purchased from Hetchy Power in prior year, $105 from the Wastewater Enterprise for the Living Machine System, and $29 in custom work receivables for Hunters Point Shipyard and Candlestick Point projects, offset by an increase of $734 receivable from Recreation and Parks Department for energy efficiency projects.

Capital assets, net of accumulated depreciation and amortization, increased by $34,701 or 7.8% to $479,422 primarily due to additions of facilities, improvements, machinery, and equipment for Cherry Dam Outlet Works Rehabilitation, Moccasin Facilities New Construction, Mountain Tunnel Improvement, and 2018 Moccasin Storm projects. Deferred outflows of resources decreased by $9,195, of which $11,169 was for pensions based on actuarial report, offset by an increase of $1,974 in other post-employment benefits per implementation of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*.

Total liabilities increased by $9,443 or 4.1%, to $237,169. A working capital loan of $5,601 due to Hetchy Power from CleanPowerSF was eliminated upon consolidation. As of June 30, 2018, outstanding debts decreased by $2,794 was attributable to $2,764 in principal repayments, and $252 in amortization of premium and discount, offset by an increase of $222 in Hetchy Power commercial paper issuance.

Other liabilities of $147,067, such as payables to vendors, contractors, and other government agencies for goods and services under contractual agreements, increased by $12,237 or 9.1%. Increases included $13,399 in outstanding accounts payable to vendors and contractors for goods and services as compared to prior year due to early close-out of legacy finance system payables to prepare for system conversion, $7,778 in other post-employment benefits due to implementation of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*, $3,432 in unearned revenues, $285 in employee related benefits including workers' compensation, vacation and sick leave, and accrued payroll, and $28 in general liability based on actuarial estimates; offset by decreases of $12,290 in net pension liability based on actuarial report, $387 due from CleanPowerSF to Hetchy Power for purchased electricity in prior year, and $8 in bond and loan interest payables. See Note 10(a), Pension Plan, for additional details.

Increase of $3,432 in unearned revenues included $1,867 in credits to MID due to year-end true-up reconciliation, $814 in deposits from DAS and the Hunters Point Shipyard projects, $618 in utility and electric energy surcharge tax payables, $535 in deposits for Sunnydale Parcel Q custom work project, $94 in DAS customer prepayments, $58 from CleanPowerSF net energy metering credits to retail and commercial customers, and $12 in prepaid rent, offset by a decrease of $566 in prior year credit due to other City department for work order billings. Deferred inflows of resources increased by $1,204, of which $1,146 was related to pensions based on actuarial report and $58 in other post-employment benefits due to implementation of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions.*

Hetchy Water

Hetchy Water's net position of $191,790 increased by $23,434 or 13.9% resulting from an increases of $24,995 in total assets and deferred outflows of resources, and $1,561 in total liabilities and deferred inflows of resources (see Table 1B). Increase in current and other assets of $17,228 was attributed to $16,921 increase in cash and investment with City Treasury primarily due to $30,000 transfer from the Water Enterprise to fund upcountry water projects, $210 increase in interest receivables as a result of higher interest rates, $58 in prepaid charges, advances, and other receivables, of which $60 from vendor prepayments, and $6 from Rim Fire insurance recoveries receivables, offset by decreases of $5 from advance paid to the Recreation and Parks Department for the Civic Center Garage and $3 in payroll credits. Grant receivables increased by $53 from Association of Bay Area Governments for Lower Cherry Aqueduct Emergency Rehabilitation project. These increases were offset by a decrease of $14 from Charges for services receivables primarily from Groveland Community Services due to higher collection.

Capital assets, net of accumulated depreciation and amortization, increased by $12,068 or 9.4% to $139,799 primarily due to increases in facilities, improvements, machinery, and equipment for Cherry Dam Outlet Works Rehabilitation, 2018 Moccasin Storm, Moccasin Facilities New Construction, and San Joaquin Pipeline Rehabilitation projects. Deferred outflows of resources for pensions decreased by $4,301, of which $5,171 was for pensions based on actuarial report, offset by an increase of $870 in other post-employment benefits per implementation of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*.

Hetchy Water's total liabilities increased by $1,055 or 2.1% to $52,101, due increases of $4,592 in other post-employment benefits due to implementation of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*, $2,753 in outstanding payables to vendors and contractors for goods and services as compared to prior year due to early close-out of legacy finance system payables to prepare for system conversion, $77 in employee related benefits including workers' compensation, vacation and sick leave, and $5 in prepaid rent, offset by decreases of $6,019 in net pension liability, and $353 in general liability based on actuarial estimates. Deferred inflows of resources increased by $506, of which $480 was related to pensions based on actuarial report and $26 in other post-employment benefits due to implementation of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions.*

Hetchy Power

Hetchy Power's net position of $406,626 increased by $4,940 or 1.2% resulting from an increase of $11,993 in total assets and deferred outflows of resources, offset by an increase of $7,053 in total liabilities and deferred inflows of resources (see Table 1C). A working capital loan of $5,601 due to Hetchy Power from CleanPowerSF was eliminated upon consolidation. Current and other assets decreased by $5,383 or 2.2%, of which $3,123 decrease in cash and investment with City Treasury and outside City Treasury mainly due to increased capital project spending, $2,113 in due from other City departments included repayments of $1,649 from CleanPowerSF for working capital loan, $677 from Mayor's Energy Conservation Account, $387 from CleanPowerSF electricity purchased in prior year, $105 from the Wastewater Enterprise for the Living Machine System, and $29 decrease in custom work receivables for Hunters Point Shipyard and Candlestick Point projects, offset by an increase of $734 in receivable from Recreation and Parks Department for energy efficiency projects.

Charges for service receivables decreased by $1,128 primarily due to decreased power sales to MID, and $37 in grant receivables due to collections from the Federal Emergency Management Agency for the Hazard Mitigation Grant Project. Prepaid charges, advances, and other receivables increased by $662 including $347 in vendor prepayments, $287 in receivables for DAS, and $75 in Rim Fire insurance recoveries receivables, offset by decreases of $21 in custom work receivables for the Sunnydale Housing projects, $15 in payroll credits, and $11 in advance paid to the Recreation and Parks Department for the Civic Center Garage. Interest receivables increased by $356 due to higher interest rates.

Capital assets, net of accumulated depreciation and amortization, increased by $22,633 or 7.1% to $339,623 primarily due to additions of facilities, improvements, machinery, and equipment for Cherry Dam Outlet Works Rehabilitation, Warnerville Substation Rehabilitation, Moccasin Facilities New Construction, and Mountain Tunnel Improvement projects. Deferred outflows of resources decreased by $5,257, of which $6,321 was for pensions based on actuarial report, offset by an increase of $1,064 in other post-employment benefits per implementation of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*.

Hetchy Power's total liabilities of $178,983 increased by $6,435 or 3.7%. As of June 30, 2018, outstanding debts decreased by $2,794 attributable to $2,764 in principal repayments, and $252 in amortization of premium and discount, offset by an increase of $222 in commercial paper issuance. Other liabilities of $88,881, such as payables to vendors, contractors, and other government agencies for goods and services under contractual agreements, increased by $9,229 or 11.6% mainly attributed to $10,046 in outstanding accounts payable to vendors and contractors for goods and services as compared to prior year due to early close-out of legacy finance system payables to prepare for system conversion, $3,459 in unearned revenues, $2,545 in other post-employment benefits due to implementation of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*, $381 in general liability based on actuarial estimates, and $164 in employee related benefits including workers' compensation, vacation and sick leave; offset by decreases of $7,358 in net pension liability based on actuarial report and $8 in bond and loan interest payable.

Increase of $3,459 in unearned revenues included $1,867 in credits to MID due to year-end true-up reconciliation, $814 in deposits from DAS and the Hunters Point Shipyard projects, $708 in utility and electric energy surcharge tax payables, $535 in deposits for Sunnydale Parcel Q custom work project, $94 in DAS customer prepayments, and $7 in prepaid rent, offset by a decrease of $566 in prior year credit due to other City department for work order billings. Deferred inflows of resources increased by $618, of which $587 was related to pensions based on actuarial report and $31 in other post-employment benefits per implementation of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*.

CleanPowerSF

CleanPowerSF's net position of $8,860 increased by $642 or 7.8% during the fiscal year (see Table 1D). Total assets were $20,263, a $663 or 3.4% increase from prior year. Increases were attributed to $2,431 in prepaid expenses for electricity purchases and $42 in interest receivables due to higher interest rates, offset by decreases of $1,653 in cash and investment with City Treasury mainly due to higher electricity purchases and $157 in charges for services receivables from higher collections. Deferred outflows of resources increased $363, of which $323 was for pensions based on actuarial report and $40 in other post-employment benefits per implementation of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*.

Total liabilities of $11,686 increased by $304 or 2.7% due to $2,036 due to other City departments, of which $1,649 in working capital loan to Hetchy Power, $387 in payment to Hetchy Power for purchased electricity from prior year, and $90 in utility tax and electric energy surcharge tax remittance. These decreases were offset by increases of $1,087 in net pension liability based on actuarial report, $641 in other post-employment benefits due to implementation of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*, $600 in outstanding payables to vendors and contractors for goods and services under contractual agreement as compared to prior year due to early close-out of legacy finance system payables to prepare for system conversion, $58 in unearned revenue from net energy metering credits to retail and commercial customers, and $44 in employee related benefits including accrued payroll, vacation and sick leave. Deferred inflows of resources increased by $80, of which $79 was related to pensions based on actuarial report and $1 in other post-employment benefits per implementation of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*.

Net Position, Fiscal Year 2017

Hetch Hetchy

Hetch Hetchy's net position of $578,260 increased by $65,646 or 12.8% during the year (see Table 1A). Current and other assets were $336,106, a $65,544 or 24.2% increase from prior year with elimination of a $7,250 working capital loan from Hetchy Power to CleanPowerSF. The increases were attributed to $67,896 in restricted and unrestricted cash and investment with City Treasury and outside City Treasury mainly explained by $60,000 transfer from the Water Enterprise to fund upcountry water projects, and $20,058 in commercial paper issuance for Hetchy Power, $420 in vendor prepayments, $193 in other receivables for Distributed Antenna System (DAS), and $201 increase in interest receivables due to higher average cash balance.

These increases were offset by decreases of $1,566 in prior year collections from the Federal Emergency Management Agency (FEMA) and the State Office of Emergency Services for the Rim Fire projects, $1,013 in receivables due from other City departments, as explained by $748 repayments from Mayor's Energy Conservation Account, $549 payment from Water Enterprise for DAS, $103 repayment from the

Wastewater Enterprise for the Living Machine System, offset by $387 increase in due from CleanPowerSF for electricity purchased from Hetchy Power.

Other decreases included $259 in receivables for various custom work projects, $75 in inventory due to more issuances than purchases, $17 from advance paid to the Recreation and Parks Department for the Civic Center Garage, and $5 in travel advance. Charges for services receivables decreased by $231, including $2,540 decreased electricity sales primarily from Turlock Irrigation District (TID) due to no sales of excess power and $256 in decreased water consumption from Lawrence Livermore National Laboratory, offset by an increase of $2,565 in charges for services receivable from CleanPowerSF.

Capital assets, net of accumulated depreciation and amortization, increased by $40,472 or 10% to $444,721 primarily due to additions of facilities, improvements, machinery, and equipment for Mountain Tunnel Improvement, Moccasin Facilities New Construction, San Joaquin Pipeline Rehabilitation, and Transbay Transit Center. Deferred outflows of resources increased by $19,808 due to pensions based on actuarial report.

Total liabilities increased by $65,883 or 40.7%, to $227,726. A working capital loan of $7,250 due to Hetchy Power from CleanPowerSF was eliminated upon consolidation. As of June 30, 2017, outstanding debts increased by $17,505 attributable to $20,058 Hetchy Power commercial paper issuance in February 2017, offset by $2,011 in principal repayments, $288 redemption of 2012 New Clean Renewable Energy Bonds (NCREBs), and $254 in amortization of premium and discount. Other liabilities of $134,830, such as payables to vendors, contractors, and other government agencies for goods and services under contractual agreements, increased by $48,378 or 56%. Net pension liability increased by $42,538 due to investment losses, the Appeals Court's elimination of the full funding requirement for certain members, and the impact of the revised demographic assumptions and change in discount rate. See Note 10(a), Pension Plan, for additional details.

Other increases included $4,157 in restricted liabilities for bond fund-projects, $3,053 in other post-employment benefit obligations as a result of higher actuarially determined annual required contribution, $2,891 in unearned revenues, including $1,189 in grant advance received from FEMA and the State Office of Emergency Services for the Rim Fire projects, $566 in credits due to other City departments for work order billings, $391 in credits to MID and TID due to billing true up, $377 in deposits for various custom work projects, $232 in deposits from DAS and the Hunters Point Shipyard project, $130 in utility taxes payable, and $15 in credits for CleanPowerSF retail and commercial customers, offset by a $9 decrease in prepaid rent.

General liability increased by $577 based on actuarial estimates, and due from CleanPowerSF to Hetchy Power increased by $387. The increases were offset by a decrease of $5,224 in outstanding accounts payable to vendors and contractors for services, and a decrease of $1 in bond and loan interest payable. Deferred inflows of resources decreased by $5,705 due to pensions based on actuarial report.

Hetchy Water

Hetchy Water's net position of $168,356 increased by $45,645 or 37.2% resulting from increases of $57,019 in total assets, $8,913 in deferred outflows of resources and a decrease in deferred inflows of resources of $2,567, offset by $22,854 increases in total liabilities (see Table 1B). Increase in current and other assets of $43,155 was attributed to $43,126 increase in restricted and unrestricted cash and investment with City Treasury due primarily to $60,000 transfer from the Water Enterprise to fund upcountry projects, and $336 in vendor prepayments. These increases were offset by decreases of $256 in charges for service receivables primarily from decreased consumption for Lawrence Livermore National Laboratory, $33 in inventory from more issuances than purchases, $14 in interest receivables from pooled investment resulting from lower average cash balance and $4 from advance paid to the Recreation and Parks Department for the Civic Center Garage.

Capital assets, net of accumulated depreciation and amortization, increased by $13,864 or 12.2% to $127,731 primarily due to increases in facilities, improvements, machinery, and equipment for Mountain Tunnel Improvement, Moccasin Facilities New Construction, and San Joaquin Pipeline Rehabilitation. Deferred outflows of resources increased by $8,913 due to pensions based on actuarial report.

Hetchy Water's total liabilities increased by $22,854 or 81.1% to $51,046, as explained by increases of $19,142 in net pension liability due to investment losses, the Appeals Court's elimination of the full funding requirement for certain members, and the impact of the revised demographic assumptions and change in discount rate, $3,767 increase in restricted liabilities related to Water bond-funded upcountry projects, $1,335 in other post-employment benefit obligations as a result of higher actuarially determined annual required contribution, $539 in grant advance received from FEMA and the State Office of Emergency Services for the Rim Fire projects, and $233 in general liability based on actuarial estimates. The increases were offset by decreases of $2,124 in outstanding payables to vendors and contractors for services, and $35 in employee related benefits including workers' compensation, vacation and sick leave, and accrued payroll, and $3 decrease in prepaid rent. Deferred inflows of resources decreased by $2,567 due to pensions based on actuarial report.

Hetchy Power

Hetchy Power's net position of $401,686 increased by $11,783 or 3.0% resulting from an increase of $36,647 in total assets, $10,895 in deferred outflows of resources and a decrease in deferred inflows of resources of $3,138, offset by an increase of $38,897 in total liabilities (see Table 1C). CleanPowerSF is presented as part of Hetchy Power in fiscal year 2016. Current and other assets increased by $10,039 or 4.3%, due primarily to increases of $10,722 in restricted and unrestricted cash and investment with City Treasury and outside City Treasury due to $20,058 commercial paper issuance, offset by $8,174 CleanPowerSF cash and investments with City Treasury from prior year. A working capital loan of $7,250 due to Hetchy Power from CleanPowerSF was eliminated upon consolidation. Interest receivables increased by $198 due to higher averaged cash balance during fiscal year 2017, including $8 from CleanPowerSF in prior year. Other increases included $193 in other receivables for DAS and $77 in vendor prepayments.

Other decreases included $5,503 in charges for services receivables primarily due to $2,963 receivables from CleanPowerSF electricity sales in prior year, and $2,540 decreased electricity sales due to no sales of excess power to TID; $1,566 in prior year collections from the FEMA and the State Office of Emergency Services for the Rim Fire projects, $259 receivables for various custom work projects, $42 in inventory due to more issuances than purchases, $13 from advance paid to the Recreation and Parks Department for the Civic Center Garage, and $5 in travel advance. Receivables due from other City departments decreased by $1,013 as explained by $748 repayments to Mayor's Energy Conservation Account, $549 payment from Water Enterprise for DAS, $103 repayment from the Wastewater Enterprise for the Living Machine System, offset by $387 increase in receivables for electricity sales from Hetchy Power to CleanPowerSF.

Capital assets, net of accumulated depreciation and amortization, increased by $26,608 or 9.2% to $316,990 primarily due to additions of facilities, improvements, machinery, and equipment for Mountain Tunnel Improvement, Moccasin Facilities New Construction, and Transbay Transit Center. Deferred outflows of resources increased by $10,895 due to pensions based on actuarial report.

Hetchy Power's total liabilities of $172,548 increased by $38,897 or 29.1%. As of June 30, 2017, outstanding debts increased by $17,505 attributable to $20,058 commercial paper issuance in February 2017, offset by $2,011 in principal repayments, $288 redemption of 2012 NCREBs, and $254 in amortization of premium and discount. Other liabilities of $79,652, such as payables to vendors, contractors, and other government agencies for goods and services under contractual agreements, increased by $21,392 or 36.7%. Net pension liability increased by $23,396 due to investment losses, the Appeals Court's elimination of the full funding requirement for certain members, and the impact of the revised demographic assumptions and change in discount rate, $2,250 increase in unearned revenues, including $650 in grant advance received from FEMA and the State Office of Emergency Services for the Rim Fire projects, $566 in credits due to other City departments for work order billings, $391 in credits to MID and TID due to billing true up, $377 in deposits for various custom work projects, $232 in deposits from DAS and Hunters Point Shipyard Project, $40 in utility taxes payable, offset by a $6 decrease in prepaid rent. Other increases included $1,631 in other post-employment benefit obligations as a result of higher actuarially determined annual required contribution, $390 in restricted liabilities for bond fund-projects, and $344 in general liability based on actuarial estimates.

The increases in other liability were offset by decreases of $6,580 in accounts payable to vendors and contractors for services, of which $1,722 was related to CleanPowerSF accounts payable in prior year, and $38 in employee related benefits including workers' compensation, vacation and sick leave, and accrued payroll, and slight decrease of $1 in bond and loan interest payable. Deferred inflows of resources decreased by $3,138 due to pensions based on actuarial report.

CleanPowerSF

CleanPowerSF's net position of $8,218 included $19,600 in total assets offset by $11,382 in total liabilities (see Table 1D). Total assets of $19,600 comprised of $14,048 in cash and investment with City Treasury from electricity sales, $5,528 in charges for services receivables from billings, $17 in interest receivables and $7 in vendor prepayment.

Total liabilities of $11,382 comprised of $7,250 working capital loan from Hetchy Power, $3,480 in accounts payables, $387 in payable to Hetchy Power for purchased electricity, $90 in utility tax and electric energy surcharge tax payable from increased electricity sales, $87 in other post-employment benefit obligations as a result of actuarially determined annual required contribution, $73 in employee related benefits including vacation, sick leave and accrued payroll and $15 in unearned revenues for credits to retail and commercial customers.

(Dollars in thousands, unless otherwise stated)

Results of Operations

The following tables summarize Hetch Hetchy's revenues, expenses, and changes in net position:

Table 2A - Consolidated Hetch Hetchy
Comparative Condensed Revenues, Expenses, and Changes in Net Position
Years ended June 30, 2018, 2017, and 2016

	2018	2017	2016*	2018-2017 Change	2017-2016 Change
Revenues:					
Charges for services	$ 191,667	189,664	164,474	2,003	25,190
Rents and concessions	296	315	262	(19)	53
Interest and investment income	2,929	1,853	1,280	1,076	573
Other non-operating revenues	11,311	12,384	12,456	(1,073)	(72)
Total revenues	206,203	204,216	178,472	1,987	25,744
Expenses:					
Operating expenses	197,615	194,130	148,495	3,485	45,635
Interest expenses	3,204	3,270	3,355	(66)	(85)
Amortization of premium, discount, and issuance costs	(248)	(255)	(122)	7	(133)
Other non-operating expenses	1,795	1,476	1,744	319	(268)
Total expenses	202,366	198,621	153,472	3,745	45,149
Change in net position before transfers	3,837	5,595	25,000	(1,758)	(19,405)
Transfers from the City and County of San Francisco	30,087	60,100	1,385	(30,013)	58,715
Transfers to the City and County of San Francisco	(512)	(49)	(705)	(463)	656
Net transfers	29,575	60,051	680	(30,476)	59,371
Change in net position	33,412	65,646	25,680	(32,234)	39,966
Net position at beginning of year					
Beginning of year, as previously reported	578,260	512,614	486,934	65,646	25,680
Cumulative effect of accounting change	(4,396) **	–	–	(4,396)	–
Beginning of year as restated	573,864	512,614	486,934	61,250	25,680
Net position at end of year	$ 607,276	578,260	512,614	29,016	65,646

*Excluded $403 electricity sales and electricity purchases between CleanPowerSF and Hetchy Power.
**Cumulative effect of accounting change per GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions.*

Table 2B - Hetchy Water
Comparative Condensed Revenues, Expenses, and Changes in Net Position
Years ended June 30, 2018, 2017, and 2016

	2018	2017	2016	2018-2017 Change	2017-2016 Change
Revenues:					
Charges for services	$ 33,427	35,008	38,624	(1,581)	(3,616)
Rents and concessions	133	142	118	(9)	24
Interest and investment income (loss)	218	46	(38)	172	84
Other non-operating revenues	1,237	616	200	621	416
Total revenues	35,015	35,812	38,904	(797)	(3,092)
Expenses:					
Operating expenses	39,792	50,099	36,536	(10,307)	13,563
Other non-operating expenses	68	68	68	–	–
Total expenses	39,860	50,167	36,604	(10,307)	13,563
Change in net position before transfers	(4,845)	(14,355)	2,300	9,510	(16,655)
Transfers from the City and County of San Francisco	30,000	60,000	–	(30,000)	60,000
Change in net position	25,155	45,645	2,300	(20,490)	43,345
Net position at beginning of year					
Beginning of year, as previously reported	168,356	122,711	120,411	45,645	2,300
Cumulative effect of accounting change	(1,721) *	–	–	(1,721)	–
Beginning of year as restated	166,635	122,711	120,411	43,924	2,300
Net position at end of year	$ 191,790	168,356	122,711	23,434	45,645

*Cumulative effect of accounting change per GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions.*

(Dollars in thousands, unless otherwise stated)

Table 2C - Hetchy Power
Comparative Condensed Revenues, Expenses, and Changes in Net Position
Years ended June 30, 2018, 2017, and 2016

	2018	2017	2016*	2018-2017 Change	2017-2016 Change
Revenues:					
Charges for services	$ 118,672	120,789	125,850	(2,117)	(5,061)
Rents and concessions	163	173	144	(10)	29
Interest and investment income	2,537	1,718	1,318	819	400
Other non-operating revenues	10,073	11,764	12,256	(1,691)	(492)
Total revenues	131,445	134,444	139,568	(2,999)	(5,124)
Expenses:					
Operating expenses	119,395	116,935	111,959	2,460	4,976
Interest expenses	3,103	3,200	3,355	(97)	(155)
Amortization of premium, discount, and issuance costs	(248)	(255)	(122)	7	(133)
Other non-operating expenses	1,727	1,408	1,676	319	(268)
Total expenses	123,977	121,288	116,868	2,689	4,420
Change in net position before transfers	7,468	13,156	22,700	(5,688)	(9,544)
Transfers from the City and County of San Francisco	87	100	1,385	(13)	(1,285)
Transfers to the City and County of San Francisco	(512)	(49)	(705)	(463)	656
Net transfers	(425)	51	680	(476)	(629)
Change in net position	7,043	13,207	23,380	(6,164)	(10,173)
Net position at beginning of year					
Beginning of year, as previously reported	401,686	389,903	366,523	11,783	23,380
Cumulative effect of accounting change	(2,103) **	–	–	(2,103)	–
Less: CleanPowerSF beginning net position	–	(1,424)	–	1,424	(1,424)
Beginning of year as restated	399,583	388,479	366,523	11,104	21,956
Net position at end of year	$ 406,626	401,686	389,903	4,940	11,783

* $367 electricity sales and $36 electricity purchases between CleanPowerSF and Hetchy Power excluded in fiscal year 2016.
**Cumulative effect of accounting change per GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions.*

Table 2D - CleanPowerSF
Comparative Condensed Revenues, Expenses, and Changes in Net Position
Years ended June 30, 2018 and 2017

	2018	2017	2018-2017 Change
Revenues:			
Charges for services	$ 39,568	33,867	5,701
Interest and investment income	174	89	85
Other non-operating revenues	1	4	(3)
Total revenues	39,743	33,960	5,783
Expenses:			
Operating expenses	38,428	27,096	11,332
Interest expenses	101	70	31
Total expenses	38,529	27,166	11,363
Change in net position	1,214	6,794	(5,580)
Net position at beginning of year			
Beginning of year, as previously reported	8,218	1,424	6,794
Cumulative effect of accounting change	(572) *	—	(572)
Beginning of year as restated	7,646	1,424	6,222
Net position at end of year	$ 8,860	8,218	642

*Cumulative effect of accounting change per GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions.*

Result of Operations, Fiscal Year 2018

Hetch Hetchy

Hetch Hetchy's total revenues were $206,203, an increase of $1,987 or 1% over prior year (see Table 2A). Charges for services were $191,667, an increase of $2,003 or 1.1%, due to increase of $5,701 from CleanPowerSF electricity sales to retail and commercial customers, offset by decreases of $2,117 from Hetchy Power due primarily to decreased sales to non-City customers, and $1,581 from Hetchy Water mainly due to decreased water assessment fees from the Water Enterprise to fund upcountry water-related costs. Hetch Hetchy's total expenses were $202,366, an increase of $3,745 or 1.9% over prior year.

Hetchy Water

Hetchy Water's total revenues were $35,015, a decrease of $797 or 2.2% from prior year's revenues (see Table 2B). Charges for services were $33,427, a decrease of $1,581 or 4.5% mainly due to a decrease of $2,000 water assessment fees from the Water Enterprise to fund upcountry water-related costs, offset by an increase of $418 from Lawrence Livermore National Laboratory due to higher consumption. Rents decreased by $9 due to lower Moccasin cottage rentals. Other non-operating revenues increased by $621 mainly due to $1,050 grant revenue from Association of Bay Area Governments for Lower Cherry Aqueduct Emergency Rehabilitation Project, and $17 from miscellaneous revenue, offset by decreases of $431 from prior year Rim Fire insurance recoveries, and $15 in net gain on sale of assets. Interest and investment income increased by $172 due to $769 in interest earned resulting from higher interest rates and higher cash balances, offset by an increase in unrealized loss of $597 attributed to decline in market value in cash and investments with City Treasury.

Total operating expenses were $39,792, a decrease of $10,307 or 20.6% due to $7,482 in personnel services for lower pensions and personnel costs, $3,161 in other operating expenses mainly due to increased capitalized project expenses, $390 decrease in legal services provided by City Attorney, $282 in general and administrative expenses mainly due to judgments and claims based on actuarial estimates, and $60 in building, construction and equipment maintenance supplies. These decreases were offset by increases of $561 in depreciation and amortization related to building, structure and equipment, and $507 in contractual services mainly for engineering services. Other non-operating expenses of $68 related to the Summer Youth Program for Garden Project remained the same from prior year. Transfer in of $30,000 was received from the Water Enterprise to fund upcountry projects.

As a result of the above activities, net position for the year ended June 30, 2018 increased by $23,434 or 13.9% compared to prior year.

Hetchy Power

Hetchy Power's total revenues were $131,445, a decrease of $2,999 or 2.2% from prior year's revenues (see Table 2C). Charges for services were $118,672, a decrease of $2,117 or 1.8% was primarily due to $7,658 in power sales to MID, offset by increases of $2,359 electricity sales to other City departments, $1,677 sales to other retail customers mainly from San Francisco Port operations, and $1,491 in sale of electricity to CleanPowerSF. Rents decreased by $10 due to lower Moccasin cottage rentals.

Other non-operating revenues decreased by $1,691 or 14.4% included $2,984 lower collection from Power System Impact Mitigation Project, $751 from prior year Rim Fire insurance recovery, $45 in Federal interest subsidy due to sequestration, $37 in grant advance received from FEMA for the Rim Fire projects in prior year, and $9 in miscellaneous revenue; offset by increases of $1,000 in fees collected from DAS, $838 from energy efficiency projects, $134 in Cap and Trade revenues, $85 in annual license fee received from

San Francisco Port Transbay Cable Project, $28 in collection from Sunnydale Parcel Q Housing project, $27 in overhead charges, and $23 in net gain on sale of assets. Interest and investment income increased by $819 due to $1,651 interest earned resulting from higher interest rates, offset by an increase in unrealized loss of $832 attributed to decline in market value in cash and investments with City Treasury.

Total operating expenses, excluding interest expenses, other non-operating expenses, and amortization of premium, discount, and issuance costs, increased by $2,460 or 2.1% to $119,395 due to $7,674 in energy supply purchases and $5,791 in transmission and distribution power cost due to powerhouse shut down and to fulfill the balancing reserve requirement, $824 in depreciation and amortization related to building, structure and equipment, $610 in contractual services primarily due to increased software licensing fees, $136 in general and administrative expenses mainly due to judgments and claims based on actuarial estimates, and promotion expenses; and $31 in safety material and supplies. These increases were offset by decreases $10,011 in personnel services mainly due to lower pensions, $1,727 in other operating expenses mainly due to increased capitalized project expenses, and $868 decrease in legal services provided by City Attorney.

Other non-operating expenses increased by $319 or 22.7% to $1,727 due to higher payments for GoSolarSF Incentive Program. Interest expense decreased by $97 was due to higher capitalized interest for capital projects. Amortization of premium and discount slightly decreased by $7. Net transfer of $425 included transfers out of $480 to Department of Emergency Management for Heating, Ventilation, and Air Conditioning (HVAC) controls upgrade, and $32 to the Office of the City's Administrator for the Surety Bond Program; offset by transfer in of $87 refund from the Police Department for the HVAC Controls Upgrade Phase I project.

As a result of the above activities, net position for the year ended June 30, 2018 increased by $4,940 or 1.2% compared to prior year.

CleanPowerSF

CleanPowerSF's total revenues were $39,743, an increase of $5,783 or 17.0% over prior year's revenues (see Table 2D). Increase of $5,701 or 16.8% in charges for services included $5,666 increased electricity sales to retail and commercial customers due to consumption increase of 103,146 MWh or 23% and $47 in capacity sale, offset by a decrease of $12 from prior year electricity sales to Hetchy Power. Interest and investment income was $174, an increase of $85 or 95.5% due to higher interest rates. Other non-operating revenues decreased by $3 resulting from lower opt out termination fees collected from customers.

Total operating expenses, excluding interest expenses were $38,428, an increase of $11,332 or 41.8% from prior year. The increase was due to $7,860 in purchased electricity and transmission, distribution and other power costs from higher sales, including $1,608 or 84.9% increase in purchased electricity from Hetchy Power, $1,025 in professional and contractual services for customer billing and program development, $937 in personnel services mainly due to pensions, and $811 in services provided by other departments mainly from legal services provided by City Attorney and communication services. General and administrative increased by $526 mainly due to increases of $190 in judgments and claims expense, $180 in tax, license and permits for Pacific Gas & Electric Company (PG&E), and $144 in membership fees. Other operating expenses increased by $174 for administrative, data scheduling and procurement support. These increases were offset by $1 decrease in material and supplies. Other non-operating expense increased by $31 due to higher interest rate on loan repayment to Hetchy Power.

As a result of the above activities, net position for the year ended June 30, 2018 increased by $642 or 7.8% compared to prior year.

Result of Operations, Fiscal Year 2017

Hetch Hetchy

Hetch Hetchy's total revenues were $204,216, an increase of $25,744 or 14.4% over prior year (see Table 2A). Charges for services were $189,664, an increase of $25,190 or 15.3%, due to increases of $30,118 from CleanPowerSF electricity sales to retail and commercial customers, offset by decreases of $5,061 from Hetchy Power due primarily to a $7,480 decrease in electricity sales to non-City customers, $3,749 CleanPowerSF electricity sales from prior year, offset by increases of $3,913 in sales to other City departments and $1,526 in CleanPowerSF electricity purchased from Hetchy Power. CleanPowerSF was presented as part of Hetchy Power in fiscal year 2016. Hetchy Water charges for services decreased by $3,616 mainly due to decreased water assessment fees of $2,000 or 5% from the Water Enterprise to fund upcountry water-related costs, and $1,625 decreased sale of water from Lawrence Livermore National Laboratory. Hetch Hetchy's total expenses were $198,621, an increase of $45,149 or 29.4% over prior year.

Hetchy Water

Hetchy Water's total revenues were $35,812, a decrease of $3,092 or 7.9% from prior year's revenues (see Table 2B). Charges for services decreased by $3,616 mainly due to decreased water assessment fees of $2,000 from the Water Enterprise to fund upcountry water-related costs, and $1,625 decreased consumption from Lawrence Livermore National Laboratory. The decreases were offset by increases of other non-operating revenues of $416, including $417 from Rim Fire insurance recoveries, $21 in net gain on sale of assets, $10 in miscellaneous revenues, offset by a decrease of $32 from Hunters Point custom work project. Other increases included $84 in interest and investment income and $24 in rent from Moccasin cottage rentals.

Total expenses were $50,167, an increase of $13,563 or 37.1%. Personnel service increased by $9,815 mainly resulting from increased pension expense, $2,977 in other operating expenses due to higher projects spending mainly for San Joaquin Pipeline Rehabilitation Project and Moccasin Facilities New Construction Project, $631 in depreciation and amortization related to increased capitalizable facilities and improvement, and $147 in general and administrative expenses mainly due to $639 increased judgments and claims based on actuarial estimates, offset by decreases of $510 in taxes, licenses, and permits related to national park service. Contractual services increased by $115 in engineering services. These increases were offset by decreases of $92 in legal services provided by the City Attorney, and $30 in safety and office supplies. Net transfer in of $60,000 was received from the Water Enterprise to fund upcountry projects.

As a result of the above activities, net position for the year ended June 30, 2017 increased by $45,645 or 37.2% compared to prior year.

Hetchy Power

Hetchy Power's total revenues were $134,444, a decrease of $5,124 or 3.7% from prior year's revenues (see Table 2C). Decrease of $5,061 in charges for services mainly explained by $3,749 electricity sales from CleanPowerSF in prior year, net of $403 sales from prior year between Hetchy Power and CleanPowerSF. Other decreases in charges for services included $7,480 decreased sales to non-City customers mainly due to no excess power sales to TID, offset by increased electricity sales of $3,913 to other City departments due to 6% adopted average rate increase, $1,526 to CleanPowerSF, and $326 to Hunters Point and Treasure Island.

Other non-operating revenues decreased by $492 due to $2,148 in collection from Power System Impact Mitigation Projects, $317 of one-time settlement from PG&E received in prior year, $135 in generator rental revenue, $15 from Hunters Point and Candlestick Point custom work project and $8 reduction in Federal interest subsidy due to sequestration. These decreases were offset by increases of $956 from Rim Fire insurance recoveries, $915 in Cap and Trade revenues, $195 in fees collected from DAS, $37 in grant advance received from the FEMA for the Rim Fire projects, $25 in net gain from sales of assets, and $3 in miscellaneous revenues. Interest and investment income increased by $400 due to higher cash balance resulting from $20,058 commercial paper issuance, and rents increased by $29 due to Moccasin cottage rentals.

Total operating expenses, excluding interest expenses, other non-operating expenses, and amortization of premium, discount, and issuance costs, increased by $4,976 or 4.4% to $116,935 due to increases of $11,329 mainly resulting from increased pension expense, $697 in increased capital projects spending for the Mountain Tunnel Improvement Project and Moccasin Facilities New Construction Project, and $586 in depreciation and amortization related to increased capitalizable facilities and improvement. These increases were offset by decreases of $3,063 in purchased electricity due to higher generation from powerhouses, $2,759 in transmission and distribution power costs due to credit received from California Independent System Operator for excess power generated, $681 in legal services provided by the City Attorney, $577 in contractual services primarily due to discontinuance of certain software licenses, $339 in building and construction supplies, $217 in decreased general and administrative expenses due primarily to $160 in taxes, licenses, and permits related to national park service, and $105 in litigation expenses.

Interest expense decreased by $155 was due to higher capitalized interest for capital projects. Amortization of premium, discount, and issuance costs increased by $133 mainly due to issuance cost for 2015 Series AB revenue bond and 2015 NCREBs in prior year. Other non-operating expenses decreased by $268 or 16% to $1,408 due to fewer payments for Solar Incentive Program. Net transfer of $51 included $100 from the Mayor's Office to fund the Tenderloin Streetlight Replacement Project, offset by $32 transfer to the Office of the City's Administrator for the Surety Bond Program and $17 to Sheriff's Department for Lighting Energy Efficiency Retrofit Project.

As a result of the above activities, net position for the year ended June 30, 2017 increased by $11,783 or 3% compared to prior year.

CleanPowerSF

CleanPowerSF's total revenues were $33,960 (see Table 2D). Charges for services were $33,867 which included $33,855 in electricity sales to retail and commercial customers and $12 in electricity sales to Hetchy Power.

Total operating expenses, excluding interest expenses were $27,096. Purchased electricity and transmission, distribution and other power costs were $22,437, including $1,893 in purchase of electricity from Hetchy Power, $1,570 in general and administrative and other mainly from $1,068 for administrative, data, scheduling and procurement support and $502 in taxes, licenses and permits. Other operating expenses included $1,213 in personnel services, $1,141 in contractual services from Calpine (Noble)'s customer billing and administrative support, $734 in services provided by other departments mainly from legal services provided by City Attorney, communication services and Hetchy Power support and $1 in material and supplies.

(Dollars in thousands, unless otherwise stated)

Other non-operating revenues and expenses were $23 which included $89 in interest earnings and $4 in termination fees collected from customers offset by $70 in interest expenses incurred on loan repayment to Hetchy Power.

As a result of the above activities, net position for the year ended June 30, 2017 was $8,218.

Capital Assets

The following tables summarize Hetch Hetchy's changes in capital assets.

Table 3A - Capital Assets, Net of Accumulated Depreciation and Amortization
As of June 30, 2018, 2017 and 2016

	2018	2017	2016	2018-2017 Change	2017-2016 Change
Hetch Hetchy					
Facilities, improvements, machinery, and equipment	$ 339,409	315,880	286,898	23,529	28,982
Intangible assets	26,315	26,776	27,237	(461)	(461)
Land and rights-of-way	5,181	4,787	4,665	394	122
Construction work in progress	108,517	97,278	85,449	11,239	11,829
Total	479,422	444,721	404,249	34,701	40,472
Hetchy Water					
Facilities, improvements, machinery, and equipment	97,038	86,787	72,737	10,251	14,050
Intangible assets	11,203	11,410	11,618	(207)	(208)
Land and rights-of-way	3,232	3,055	3,003	177	52
Construction work in progress	28,326	26,479	26,509	1,847	(30)
Total	139,799	127,731	113,867	12,068	13,864
Hetchy Power					
Facilities, improvements, machinery, and equipment	242,371	229,093	214,161	13,278	14,932
Intangible assets	15,112	15,366	15,619	(254)	(253)
Land and rights-of-way	1,949	1,732	1,662	217	70
Construction work in progress	80,191	70,799	58,940	9,392	11,859
Total	$ 339,623	316,990	290,382	22,633	26,608

Capital Assets, Fiscal Year 2018

Hetch Hetchy

Hetch Hetchy has capital assets of $479,422, net of accumulated depreciation and amortization, invested in both water and power utility capital assets as of June 30, 2018 (see Table 3A). This amount represents an increase of $34,701 or 7.8%, resulting from increases of $23,529 in facilities, improvements, machinery, and equipment, $11,239 in construction work in progress, and $394 in land and rights-of-way; offset by a decrease of $461 in amortization of intangible assets. The investment in capital assets includes land, buildings, improvements, hydropower facilities, dams, transmission lines, machinery, and equipment.

(Dollars in thousands, unless otherwise stated)

Major additions to construction work in progress, depreciable facilities, improvements, intangible assets, machinery, and equipment placed in service, including transfers of completed projects from construction work in progress, during the year ended June 30, 2018 include the following:

Table 3B - Hetch Hetchy
Major Additions to Construction Work in Progress and
Facilities, Improvements, Intangible Assets, Machinery, and Equipment Placed in Service
Year ended June 30, 2018

	Hetchy Water	Hetchy Power	2018 Total
Cherry Dam Outlet Works Rehabilitation	$ 3,688	4,507	8,195
Moccasin Facilities New Construction	2,779	3,397	6,176
Mountain Tunnel Improvement	2,185	2,671	4,856
2018 Moccasin Storm	3,414	273	3,687
Warnerville Substation Rehabilitation	—	3,595	3,595
San Joaquin Pipeline Rehabilitation	2,615	—	2,615
Tenderloin Street Improvement	—	2,371	2,371
Bay Corridor Transmission and Distribution	—	2,285	2,285
Treasure Island Capital Improvements	—	2,127	2,127
Other project additions individually below $2,000	2,360	15,341	17,701
Additions to Construction Work in Progress	$ 17,041	36,567	53,608
Moccasin Facilities Upgrades	$ 9,087	11,109	20,196
Cherry Dam Outlet Works Rehabilitation	4,557	5,570	10,127
Streetlight Light-Emitting Diode Conversion	—	7,652	7,652
O'Shaughnessy Dam Improvement	504	616	1,120
Other project additions individually below $1,000	962	2,207	3,169
Facilities, Improvements, Intangible Assets, Machinery, and Equipment Placed in Service	$ 15,110	27,154	42,264

Hetchy Water

Hetchy Water has capital assets of $139,799, net of accumulated depreciation and amortization, invested in a broad range of utility capital assets as of June 30, 2018 (see Table 3A). This amount represents an increase of $12,068 or 9.4%, primarily due to increases of $10,251 in facilities, improvements, machinery, and equipment, $1,847 in construction work in progress, and $177 in land and rights-of-way; offset by a decrease of $207 in intangible assets due to amortization.

For the year ended June 30, 2018, Hetchy Water's major additions to construction work in progress totaled $17,041. Major depreciable facilities, improvements, intangible assets, machinery, and equipment placed in service totaled $15,110 (see Table 3B).

Hetchy Power

Hetchy Power has capital assets of $339,623, net of accumulated depreciation and amortization, invested in utility capital assets as of June 30, 2018 (see Table 3A). This amount represents an increase of $22,633 or 7.1%, primarily due to increases of $13,278 in facilities, improvements, machinery, and equipment, $9,392 in construction work in progress, and $217 in land and rights-of-way; offset by a decrease of $254 in intangible assets due to amortization.

(Dollars in thousands, unless otherwise stated)

For the year ended June 30, 2018, Hetchy Power's major additions to construction work in progress totaled $36,567. Major depreciable facilities, improvements, intangible assets, machinery, and equipment placed in service totaled $27,154 (see Table 3B).

CleanPowerSF

CleanPowerSF had no capital assets as of June 30, 2018 and 2017.

See Note 4 for additional information about capital assets.

Capital Assets, Fiscal Year 2017

Hetch Hetchy

Hetch Hetchy has capital assets of $444,721, net of accumulated depreciation and amortization, invested in both water and power utility capital assets as of June 30, 2017 (see Table 3A). This amount represents an increase of $40,472 or 10%, resulting from increases of $28,982 in facilities, improvements, machinery, and equipment, $11,829 in construction work in progress, and $122 in land and rights-of-way; offset by a decrease of $461 in amortization of intangible assets. The investment in capital assets includes land, buildings, improvements, hydropower facilities, dams, transmission lines, machinery, and equipment.

Major additions to construction work in progress, depreciable facilities, improvements, intangible assets, machinery, and equipment placed in service, including transfers of completed projects from construction work in progress, during the year ended June 30, 2017 include the following:

Table 3C - Hetch Hetchy
Major Additions to Construction Work in Progress and
Facilities, Improvements, Intangible Assets, Machinery, and Equipment Placed in Service
Year ended June 30, 2017

	Hetchy Water	Hetchy Power	2017 Total
Mountain Tunnel Improvement	$ 5,369	6,561	11,930
Moccasin Facilities New Construction	3,513	4,293	7,806
San Joaquin Pipeline Rehabilitation	6,816	—	6,816
Transbay Transit Center	—	5,012	5,012
Streetlight Light-Emitting Diode (LED) Conversion	—	2,089	2,089
Other project additions individually below $2,000	2,682	21,831	24,513
Additions to Construction Work in Progress	$ 18,380	39,786	58,166
Mountain Tunnel Improvement	$ 3,668	4,484	8,152
Streetlight LED Conversion	—	3,090	3,090
San Joaquin Pipeline Rehabilitation	3,051	—	3,051
3rd Street Corridor Rehabilitation	—	1,615	1,615
O'Shaughnessy Dam Drum Gate Automation	602	735	1,337
Other project additions individually below $1,200	11,026	17,980	29,006
Facilities, Improvements, Intangible Assets, Machinery, and Equipment Placed in Service	$ 18,347	27,904	46,251

Hetchy Water

Hetchy Water has capital assets of $127,731, net of accumulated depreciation and amortization, invested in a broad range of utility capital assets as of June 30, 2017 (see Table 3A). This amount represents an increase of $13,864 or 12.2%, primarily due to increases of $14,050 in facilities, improvements, machinery, and equipment, and $52 in land and rights-of-way; offset by decreases of $208 in amortization of intangible assets, and $30 in construction work in progress.

For the year ended June 30, 2017, Hetchy Water's major additions to construction work in progress totaled $18,380. Major depreciable facilities, improvements, intangible assets, machinery, and equipment placed in service totaled $18,347 (see Table 3C).

Hetchy Power

Hetchy Power has capital assets of $316,990, net of accumulated depreciation and amortization, invested in utility capital assets as of June 30, 2017 (see Table 3A). This amount represents an increase of $26,608 or 9.2%, primarily due to increases of $14,932 in facilities, improvements, machinery, and equipment, $11,859 in construction work in progress, and $70 in land and rights-of-way; offset by a decrease of $253 in amortization of intangible assets.

For the year ended June 30, 2017, Hetchy Power's major additions to construction work in progress totaled $39,786. Major depreciable facilities, improvements, intangible assets, machinery, and equipment placed in service totaled $27,904 (see Table 3C).

CleanPowerSF

CleanPowerSF had no capital assets as of June 30, 2017 and 2016.

See Note 4 for additional information about capital assets.

Debt Administration

Hetch Hetchy

As of June 30, 2018, Hetch Hetchy has outstanding certificates of participation, Clean Renewable Energy Bonds (CREBs), Qualified Energy Conservation Bonds (QECBs), New Clean Renewable Energy Bonds (NCREBs), 2015 Series AB revenue bonds, and commercial paper. The aforementioned debts are obligations of the Power Enterprise. See Hetchy Power section below for more details.

Hetchy Water

Hetchy Water did not have debt outstanding as of June 30, 2018 and 2017. Debt, including bond issuances, associated with the funding of water-related, upcountry infrastructure capital improvements is issued through the Water Enterprise, and is reflected in the Water Enterprise's financial statements.

Hetchy Power

As of June 30, 2018, and 2017, Hetchy Power had outstanding debt of $90,102 and $92,896, respectively, as shown in Table 4. More detailed information about the Hetchy Power's debt activity is presented in Notes 6, 7 and 8 to the financial statements.

CleanPowerSF

CleanPowerSF did not have any debt outstanding as of June 30, 2018 and 2017.

(Dollars in thousands, unless otherwise stated)

Table 4 - Hetchy Power
Outstanding Debt, Net of Unamortized Costs
As of June 30, 2018, 2017 and 2016

	2018	2017	2016	2018-2017 Change	2017-2016 Change
Clean Renewable Energy Bonds 2008	$ 2,047	2,453	2,861	(406)	(408)
Certificates of Participation 2009 Series C	1,988	2,345	2,688	(357)	(343)
Certificates of Participation 2009 Series D (BABs)	12,593	12,593	12,593	–	–
Qualified Energy Conservation Bonds 2011	5,294	5,817	6,334	(523)	(517)
New Clean Renewable Energy Bonds 2012	1,283	1,839	2,661	(556)	(822)
New Clean Renewable Energy Bonds 2015	3,651	3,877	4,100	(226)	(223)
2015 Series A Revenue Bonds	35,720	35,851	35,976	(131)	(125)
2015 Series B Revenue Bonds	7,246	8,063	8,178	(817)	(115)
Commercial Paper	20,280	20,058	–	222	20,058
Total	$ 90,102	92,896	75,391	(2,794)	17,505

The decrease of $2,794 was mainly due to $2,764 in principal repayments, and $252 in amortization of premium and discount; offset by an increase of $222 in commercial paper issuance.

Credit Ratings and Bond Insurance – The Enterprise's 2015 Series AB Power Revenue Bonds have been rated "AA-" and "A+" by Fitch Inc. and Standard and Poor's (S&P), respectively, as of June 30, 2018 and 2017.

Debt Service Coverage – Pursuant to the Indenture, the Enterprise is required to collect sufficient net revenues each fiscal year, together with any Available Funds (except Bond Reserve Funds) which include unappropriated fund balances and reserves, and cash and book value of investments held by the Treasurer for the Hetchy Power, that the SFPUC reasonably expects would be available, to pay principal and interest becoming due and payable on all outstanding bonds as provided in the Indenture, less any refundable credits, at least equal to 1.25 times annual debt service for said fiscal year. The Series 2015 AB power revenue bonds represent the first series of senior lien revenue bonds of Hetchy Power. Pursuant to Power's Master Trust Indenture, senior lien debt service coverage excludes debt service on subordinate obligations, such as Hetchy Power's existing CREBS, NCREBs, and QECBs. Because interest on the Series 2015 AB power revenue bonds was capitalized, Hetchy Power was not obligated to make debt service payments on the Series 2015 AB power revenue bonds until fiscal year 2018. Therefore, Hetchy Power did not calculate and report the Indenture-based debt service coverage ratio prior to fiscal year 2018. During fiscal year 2018, the Enterprise's net revenues, together with fund balances available to pay debt service and not budgeted to be expended, were sufficient to meet the rate covenant requirements under the Enterprise's Indenture (see Note 8).

Debt Authorization – Pursuant to Charter Section 9.107(6), the Power Enterprise can incur indebtedness upon three-fourths vote of the Board of Supervisors, for the purpose of the reconstruction or replacement of existing water facilities and electric power facilities, or combinations thereof, under the jurisdiction of the Public Utilities Commission. Pursuant to Charter Section 9.107(8), the Power Enterprise can issue revenue bonds, without voter approval, upon an affirmative vote of the Board of Supervisors, for the purpose of the acquisition, construction, installation, equipping, improvement, or rehabilitation of equipment or facilities for renewable energy and energy conservation. Pursuant to Proposition A, approved by the San Francisco voters on June 5, 2018, City Charter Section 8B.124 is amended to authorize the Power Enterprise to enter into indebtedness, including revenue bonds, notes, commercial paper or other forms of indebtedness, when authorized by ordinance approved by a two-thirds vote of the Board of Supervisors to reconstruct, replace, expand, repair, improve or construct new power facilities under the jurisdiction of SFPUC or for any other purpose of the Power Enterprise, and in compliance with City Charter Section 8B.124. Proposition A expressly prohibits the SFPUC from issuing bonds to finance the construction of power plants that generate electricity using fossil fuels or nuclear energy. As of June 30, 2018, and 2017, $39,555 of Hetchy Power revenue bonds were issued against existing authorization of $144,830.

Cost of Debt Capital – The Enterprise's outstanding long-term senior lien debt consists of the 2015 Series AB Power Revenue Bonds issued in May 2015, which are the first series of bonds issued under the Master Indenture and are senior in lien to all of the other Enterprise's outstanding debt obligations. Coupon interest rates range from 3.0% to 5.0%. The Enterprise has previously issued and incurred debt service on Tax Credit Bonds and certificates of participation, which constitute subordinate obligations. Interest rates on the Tax Credit Bonds, which include QECBs and NCREBs, range from 1.2% to 1.5% (net of the federal tax subsidy). Certificates of participation carried interest rates range from 2.0% to 6.5%. The Enterprise's short-term debt issued under its commercial paper program has interest rates ranging from 0.72% to 1.64% during fiscal years 2018 and 2017.

Rates and Charges

Hetchy Water

Hetchy Water charges for services relates to the storage and delivery of water. Assessment fees from the Water Enterprise, which cover the water-related upcountry costs, were $32,600 and $34,600 for the years ended June 30, 2018 and 2017, respectively. In fiscal year 2019, the assessment fees will be $33,578, an increase of $978 or 3% as reflected in the fiscal year 2019 adopted budget. Hetch Hetchy charges for services related to the storage and delivery of water, including providing electricity to contractual and municipal customers.

Hetchy Power

Municipal Rates

Hetchy Power charges for services relates to power generation and electricity delivery to contractual and municipal customers. For municipal power services, customers are typically charged a General Use rate or Enterprise rate. Enterprise rates are charged based on projected PG&E equivalent rates by customer class. General fund department customers are mostly charged a General Use rate, a rate that is currently below cost of service. These General Use rates, however, are moving closer towards cost of service and increasing by $0.005 per kWh on an annual basis. The Commission adopted General Use rates ranged from $0.03500/kWh to $0.10630/kWh in fiscal year 2017 and $0.04000/kWh to $0.11130/kWh in fiscal year 2018. The General Use rates have been adopted every two years.

On May 10, 2018, the Commission adopted a new General Use rate that consolidated six previous subcategories of General Use rates into a single rate. The Commission adopted two years of General Use rates effective July 1, 2018 through June 30, 2020. The adopted General Use rate for fiscal year 2019 is $0.07377/kWh. The Power Enterprise continues to develop rates under the cost of service analysis model and has started work on the next power rate study which is projected to be completed in 2020.

For fiscal year 2017, the MID and TID class one rates were $0.05126/kWh and $0.04644/kWh, respectively. Per the MID and TID contracts through the end of fiscal year 2017, MID and TID rates are trued up every year based on actual costs.

Retail Rates

The Commission approved a new schedule of retail electric rates, fees, and charges for residential, commercial, and industrial customers where Hetch Hetchy has been designated as the power provider for retail customers to be applied to meter readings on or after July 1, 2016. Total bundled service charges for residential service rates and low-income residential service rates are calculated using the total rates, monthly, based on monthly meter reading, plus any applicable taxes.

To date, Hetchy Power has prepared service standards, developed system plans and specifications, acquired materials and equipment, and initiated construction of primary distribution facilities.

Pursuant to City and County of San Francisco Charter Section 8B.125, an independent rate study is performed at least once every five years. The rate study is undertaken to examine future revenue requirements and cost-of-service of the Power Enterprise. In fall 2015, SFPUC engaged a consultant to perform a cost-of-service study. The informed rate setting from this study resulted in recommendation and approval by the Commission in the spring 2016 for rates to be effective July 1, 2016. The SFPUC Rates Schedules and Fees is available at http://sfwater.org/modules/showdocument.aspx?documentid=7743. Work is underway on the next power rate study which is projected to be completed in 2020 and provide power rates effective for fiscal year 2021.

CleanPowerSF Rates

CleanPowerSF began offering services in May 2016, giving residential and commercial electricity consumers in San Francisco a choice of having their electricity supplied from clean renewable sources, such as solar and wind, at competitive rates. Through resolution 17-0074, the Commission approved rates and charges on April 11, 2017, to be effective July 1, 2017. CleanPowerSF offers two products: a "Green" product comprised of at least 40% renewable energy and a "SuperGreen" product comprised of 100% renewable energy. Most customers take service under the "Green" product rates and remaining customers have opted to upgrade to "SuperGreen" product rates. On January 23, 2018, Commission took action on SuperGreen rates which resulted in a reduction to SuperGreen rate premiums effective March 1, 2018. The adopted SuperGreen rates varied depending upon customer classes and reflect the program's policy objective to remain competitive with PG&E comparable rates. Through resolution 18-0056, the Commission approved rates and charges on April 10, 2018, to be effective July 1, 2018, and each successive July 1 thereafter, the Commission authorizes the SFPUC General Manager to adjust rates not otherwise adjusted by Commission action. The CleanPowerSF Rate schedule is available at http://sfwater.org/index.aspx?page=993.

CleanPowerSF revenues are adequate to support its own operations; the SFPUC intends that these rates be sufficient to pay for impending projects, and be financially independent from Hetch Hetchy in the future. CleanPowerSF is subject to Section 8B.125 of the City Charter, which requires an independent rate study be performed at least once every five years, and the Commission sets rates and charges for the program. CleanPowerSF rates will be included in the next power rate study which is projected to be completed in 2020.

Request for Information

This report is designed to provide our citizens, customers, investors, and creditors with an overview of Hetch Hetchy's finances and to demonstrate Hetch Hetchy's respective accountability for the money it receives. Questions regarding any of the information provided in this report or requests for additional information should be addressed to San Francisco Public Utilities Commission, Chief Financial Officer, 525 Golden Gate Avenue, 13th Floor, San Francisco, CA 94102. This report is available at http://www.sfwater.org/index.aspx?page=347.

HETCH HETCHY WATER AND POWER AND CLEANPOWERSF
Statements of Net Position
June 30, 2018 and 2017
(In thousands)

	Hetchy Water	Hetchy Power	CleanPowerSF	Elimination*	2018 Total	Hetchy Water	Hetchy Power	CleanPowerSF	Elimination*	2017 Total
Assets										
Current assets:										
Cash and investments with City Treasury	$ 78,283	184,193	12,395	–	274,871	75,345	174,633	14,048	–	264,026
Cash and investments outside City Treasury	2	8	–	–	10	2	8	–	–	10
Receivables:										
Charges for services (net of allowance for doubtful accounts from Hetchy Power of $52 and CleanPowerSF of $306 as of June 30, 2018; and $50 of CleanPowerSF as of June 30, 2017)	28	7,273	5,371	–	12,672	42	8,373	5,528	–	13,943
Due from other City departments, current portion	–	980	–	–	980	–	3,282	–	(2,000)	1,282
Due from other governments	53	207	–	–	260	–	244	–	–	244
Interest	263	641	59	–	963	53	191	17	–	261
Restricted interest	–	174	–	–	174	–	268	–	–	268
Total current receivables	344	9,275	5,430	–	15,049	95	12,358	5,545	(2,000)	15,998
Prepaid charges, advances, and other receivables, current portion	462	1,088	2,438	–	3,988	399	415	7	–	821
Inventory	186	215	–	–	401	186	215	–	–	401
Restricted cash and investments outside City Treasury	–	2,777	–	–	2,777	–	3,783	–	–	3,783
Total current assets	79,277	197,556	20,263	–	297,096	76,027	191,412	19,600	(2,000)	285,039
Non-current assets:										
Restricted cash and investments with City Treasury	18,137	23,283	–	–	41,420	4,154	35,998	–	–	40,152
Restricted cash and investments outside City Treasury, less current portion	–	1,038	–	–	1,038	–	–	–	–	–
Capital assets, not being depreciated and amortized	31,564	83,571	–	–	115,135	29,540	73,962	–	–	103,502
Capital assets, net of accumulated depreciation and amortization	108,235	256,052	–	–	364,287	98,191	243,028	–	–	341,219
Charges for services, less current portion	–	–	–	–	–	–	28	–	–	28
Prepaid charges, advances, and other receivables, less current portion	164	793	–	–	957	169	804	–	–	973
Due from other City departments, less current portion	–	15,353	–	(5,601)	9,752	–	15,164	–	(5,250)	9,914
Total non-current assets	158,100	380,090	–	(5,601)	532,589	132,054	368,984	–	(5,250)	495,788
Total assets	237,377	577,646	20,263	(5,601)	829,685	208,081	560,396	19,600	(7,250)	780,827
Deferred outflows of resources:										
Pensions	7,488	9,152	323	–	16,963	12,659	15,473	–	–	28,132
Other post-employment benefits	870	1,064	40	–	1,974	–	–	–	–	–
Total deferred outflows of resources	8,358	10,216	363	–	18,937	12,659	15,473	–	–	28,132
Liabilities										
Current liabilities:										
Accounts payable	810	14,495	4,080	–	19,385	433	6,904	3,480	–	10,817
Accrued payroll	638	1,654	53	–	2,345	686	1,647	35	–	2,368
Accrued vacation and sick leave, current portion	835	1,504	46	–	2,385	741	1,388	25	–	2,154
Accrued workers' compensation, current portion	174	351	–	–	525	185	363	–	–	548
Damage claims liability, current portion	110	727	–	–	837	218	773	–	–	991
Due to other City departments, current portion	–	–	–	–	–	–	–	2,387	(2,000)	387
Unearned revenues, refunds, and other, current portion	8	6,256	73	–	6,337	3	3,141	105	–	3,249
Bond and loan interest payable	–	525	–	–	525	–	533	–	–	533
Bonds, current portion	–	2,480	–	–	2,480	–	2,437	–	–	2,437
Certificates of participation, current portion	–	348	–	–	348	–	331	–	–	331
Commercial paper	–	20,280	–	–	20,280	–	20,058	–	–	20,058
Current liabilities payable from restricted assets	6,403	5,423	–	–	11,826	4,027	2,968	–	–	6,995
Total current liabilities	8,978	54,043	4,252	–	67,273	6,293	40,543	6,032	(2,000)	50,868
Long-term liabilities:										
Other post-employment benefits obligations	15,872	19,400	728	–	36,000	11,280	16,855	87	–	28,222
Net pension liability	25,216	30,819	1,087	–	57,122	31,235	38,177	–	–	69,412
Accrued vacation and sick leave, less current portion	488	1,060	18	–	1,566	447	1,009	13	–	1,469
Accrued workers' compensation, less current portion	815	1,609	–	–	2,424	814	1,607	–	–	2,421
Damage claims liability, less current portion	123	1,506	–	–	1,629	368	1,079	–	–	1,447
Due to other City departments, less current portion	–	–	5,601	(5,601)	–	–	–	5,250	(5,250)	–
Bonds, less current portion	–	52,761	–	–	52,761	–	55,463	–	–	55,463
Unearned revenues, refunds, and other, less current portion	609	3,552	–	–	4,161	609	3,208	–	–	3,817
Certificates of participation, less current portion	–	14,233	–	–	14,233	–	14,607	–	–	14,607
Total long-term liabilities	43,123	124,940	7,434	(5,601)	169,896	44,753	132,005	5,350	(5,250)	176,858
Total liabilities	52,101	178,983	11,686	(5,601)	237,169	51,046	172,548	11,382	(7,250)	227,726
Deferred inflows of resources:										
Related to pensions	1,818	2,222	79	–	4,119	1,338	1,635	–	–	2,973
Other post-employment benefits	26	31	1	–	58	–	–	–	–	–
Total deferred inflows of resources	1,844	2,253	80	–	4,177	1,338	1,635	–	–	2,973
Net position:										
Net investment in capital assets	139,799	270,918	–	–	410,717	127,731	260,681	–	–	388,412
Restricted for debt service	–	834	–	–	834	–	485	–	–	485
Restricted for capital projects	11,712	–	–	–	11,712	–	–	–	–	–
Unrestricted	40,279	134,874	8,860	–	184,013	40,625	140,520	8,218	–	189,363
Total net position	$ 191,790	406,626	8,860	–	607,276	168,356	401,686	8,218	–	578,260

*Included interfund loan receivable and loan payable of $5,601 and $7,250 for fiscal year ended 2018 and 2017, between Hetchy Power and CleanPowerSF.

See accompanying notes to financial statements.

HETCH HETCHY WATER AND POWER AND CLEANPOWERSF

Statements of Revenues, Expenses, and Changes in Net Position

Years ended June 30, 2018 and 2017

(In thousands)

	Hetchy Water	Hetchy Power	CleanPowerSF	2018 Total	Hetchy Water	Hetchy Power	CleanPowerSF	2017 Total
Operating revenues:								
Charges for services	$ 33,427	118,672	39,568	191,667	35,008	120,789	33,867	189,664
Rents and concessions	133	163	–	296	142	173	–	315
Total operating revenues	33,560	118,835	39,568	191,963	35,150	120,962	33,867	189,979
Operating expenses:								
Personnel services	14,516	34,950	2,150	51,616	21,998	44,961	1,213	68,172
Contractual services	1,524	5,526	2,166	9,216	1,017	4,916	1,141	7,074
Transmission/distribution and other power costs	–	24,238	231	24,469	–	18,447	214	18,661
Purchased electricity	–	10,197	30,066	40,263	–	2,523	22,223	24,746
Materials and supplies	1,101	1,541	–	2,642	1,161	1,510	1	2,672
Depreciation and amortization	5,066	14,049	–	19,115	4,505	13,225	–	17,730
Services provided by other departments	1,572	5,848	1,545	8,965	1,962	6,716	734	9,412
General and administrative and other	16,013	23,046	2,270	41,329	19,456	24,637	1,570	45,663
Total operating expenses	39,792	119,395	38,428	197,615	50,099	116,935	27,096	194,130
Operating income (loss)	(6,232)	(560)	1,140	(5,652)	(14,949)	4,027	6,771	(4,151)
Non-operating revenues (expenses):								
Federal and state grants	1,050	–	–	1,050	–	37	–	37
Interest and investment income	218	2,537	174	2,929	46	1,718	89	1,853
Interest expenses	–	(3,103)	(101)	(3,204)	–	(3,200)	(70)	(3,270)
Amortization of premium, discount, and issuance costs	–	248	–	248	–	255	–	255
Net gain from sale of assets	6	49	–	55	21	26	–	47
Other non-operating revenues	181	10,024	1	10,206	595	11,701	4	12,300
Other non-operating expenses	(68)	(1,727)	–	(1,795)	(68)	(1,408)	–	(1,476)
Net non-operating revenues	1,387	8,028	74	9,489	594	9,129	23	9,746
Change in net position before transfers	(4,845)	7,468	1,214	3,837	(14,355)	13,156	6,794	5,595
Transfers from the City and County of San Francisco	30,000	87	–	30,087	60,000	100	–	60,100
Transfers to the City and County of San Francisco	–	(512)	–	(512)	–	(49)	–	(49)
Net transfers	30,000	(425)	–	29,575	60,000	51	–	60,051
Change in net position	25,155	7,043	1,214	33,412	45,645	13,207	6,794	65,646
Net position at beginning of year	168,356	401,686	8,218	578,260	122,711	389,903	1,424	514,038
Cumulative effect of accounting change*	(1,721)	(2,103)	(572)	(4,396)	–	–	–	–
Less: CleanPowerSF beginning net position	–	–	–	–	–	(1,424)	–	(1,424)
Beginning of year as restated	166,635	399,583	7,646	573,864	122,711	388,479	1,424	512,614
Net position at end of year	$ 191,790	406,626	8,860	607,276	168,356	401,686	8,218	578,260

*Cumulative effect of accounting change per GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions.*

See accompanying notes to financial statements.

HETCH HETCHY WATER AND POWER AND CLEANPOWERSF

Statements of Cash Flows

Years ended June 30, 2018 and 2017

(In thousands)

	Hetchy Water	Hetchy Power	CleanPowerSF	2018 Total	Hetchy Water	Hetchy Power	CleanPowerSF	2017 Total
Cash flows from operating activities:								
Cash received from customers, including cash deposits	$ 33,441	125,278	39,693	198,412	35,264	126,062	31,407	192,733
Cash received from tenants for rent	138	170	–	308	139	169	–	308
Cash paid to employees for services	(12,560)	(35,449)	(1,234)	(49,243)	(12,813)	(33,376)	(1,053)	(47,242)
Cash paid to suppliers for goods and services	(19,080)	(61,142)	(39,972)	(120,194)	(24,465)	(60,730)	(24,495)	(109,690)
Cash paid for judgments and claims	(1,356)	(2,005)	(190)	(3,551)	(1,045)	(2,150)	–	(3,195)
Net cash provided by (used in) operating activities	583	26,852	(1,703)	25,732	(2,920)	29,975	5,859	32,914
Cash flows from non-capital and related financing activities:								
Cash received from grants	997	37	–	1,034	540	2,254	–	2,794
Cash received for license fees	–	4,467	–	4,467	–	3,148	–	3,148
Cash received from miscellaneous revenues	181	4,651	1	4,833	595	8,438	4	9,037
Cash received from settlements	–	3	–	3	–	3	–	3
Cash paid for rebates, program incentives, and other	(68)	(1,727)	–	(1,795)	(68)	(1,408)	–	(1,476)
Cash paid for Hetchy Power loan interest	–	–	(83)	(83)	–	–	(70)	(70)
Transfers from the City and County of San Francisco	30,000	87	–	30,087	60,000	100	–	60,100
Transfers to the City and County of San Francisco	–	(512)	–	(512)	–	(49)	–	(49)
Net cash provided by (used in) non-capital financing activities	31,110	7,006	(82)	38,034	61,067	12,486	(66)	73,487
Cash flows from capital and related financing activities:								
Acquisition and construction of capital assets	(14,786)	(33,820)	–	(48,606)	(15,101)	(40,063)	–	(55,164)
Proceeds from sale of capital assets	6	130	–	136	21	26	–	47
Principal payments on long-term debt	–	(2,768)	–	(2,768)	–	(2,298)	–	(2,298)
Proceeds from commercial paper borrowings	–	222	–	222	–	20,058	–	20,058
Interest paid on long-term debt	–	(3,305)	–	(3,305)	–	(3,460)	–	(3,460)
Interest paid on commercial paper borrowings	–	(219)	–	(219)	–	–	–	–
Federal interest income subsidy	–	756	–	756	–	532	–	532
Net cash used in capital and related financing activities	(14,780)	(39,004)	–	(53,784)	(15,080)	(25,205)	–	(40,285)
Cash flows from investing activities:								
Interest Income	658	2,956	196	3,810	112	1,747	87	1,946
Proceeds from sale of investments outside City Treasury	–	4,990	–	4,990	–	3,051	–	3,051
Purchases of investments outside City Treasury	–	(3,446)	–	(3,446)	–	(3,056)	–	(3,056)
Net cash provided by investing activities	658	4,500	196	5,354	112	1,742	87	1,941
Increase (decrease) in cash and cash equivalents	17,571	(646)	(1,589)	15,336	43,179	18,998	5,880	68,057
Cash and cash equivalents:								
Beginning of year	79,546	211,921	14,054	305,521	36,367	192,923	8,174	237,464
End of year	$ 97,117	211,275	12,465	320,857	79,546	211,921	14,054	305,521
Reconciliation of cash and cash equivalents to the statements of net position:								
Cash and investments with City Treasury:								
Unrestricted	$ 78,283	184,193	12,395	274,871	75,345	174,633	14,048	264,026
Restricted	18,137	23,283	–	41,420	4,154	35,998	–	40,152
Cash and investments outside City Treasury:				–				
Unrestricted	2	8	–	10	2	8	–	10
Restricted	–	3,815	–	3,815	–	3,783	–	3,783
Less: Restricted (with maturity more than 90 days - see table in Note 3)	–	(1,038)	–	(1,038)	–	(2,582)	–	(2,582)
Less: Unrealized loss on investments	695	1,014	70	1,779	45	81	6	132
Cash and cash equivalents at end of year on statements of cash flows	$ 97,117	211,275	12,465	320,857	79,546	211,921	14,054	305,521

HETCH HETCHY WATER AND POWER AND CLEANPOWERSF

Statements of Cash Flows

Years ended June 30, 2018 and 2017

(In thousands)

	Hetchy Water	Hetchy Power	CleanPowerSF	2018 Total	Hetchy Water	Hetchy Power	CleanPowerSF	2017 Total
Reconciliation of operating income (loss) to net cash provided by (used in) operating activities:								
Operating income (loss)	$ (6,232)	(560)	1,140	(5,652)	(14,949)	4,027	6,771	(4,151)
Adjustments to reconcile operating income (loss) to net cash provided by (used in) operating activities:								
Depreciation and amortization	5,066	14,049	–	19,115	4,505	13,225	–	17,730
Provision for uncollectible accounts	–	52	256	308	–	–	50	50
Write-off of capital assets	28	30	–	58	499	983	–	1,482
Changes in operating assets and liabilities:								
Receivables:								
Charges for services	14	1,076	(99)	991	256	2,540	(2,615)	181
Prepaid charges, advances, and other	(58)	(375)	(2,431)	(2,864)	(332)	(13)	(7)	(352)
Due from other City departments	–	2,026	–	2,026	–	1,130	–	1,130
Inventory	–	–	–	–	33	42	–	75
Accounts payable	377	7,591	600	8,568	(2,124)	(4,858)	1,758	(5,224)
Accrued payroll	(48)	7	18	(23)	62	82	35	179
Other post-employment benefits obligations	2,027	(591)	30	1,466	1,335	1,631	87	3,053
Pension obligations	(368)	(450)	843	25	7,662	9,363	–	17,025
Accrued vacation and sick leave	135	167	26	328	(99)	(123)	38	(184)
Accrued workers' compensation	(10)	(10)	–	(20)	2	3	–	5
Damage claims liability	(353)	381	–	28	233	344	–	577
Due to other City departments	–	–	(2,054)	(2,054)	–	–	(363)	(363)
Unearned revenues, refunds, and other liabilities	5	3,459	(32)	3,432	(3)	1,599	105	1,701
Total adjustments	6,815	27,412	(2,843)	31,384	12,029	25,948	(912)	37,065
Net cash provided by (used in) operating activities	$ 583	26,852	(1,703)	25,732	(2,920)	29,975	5,859	32,914
Noncash transactions:								
Accrued capital asset costs	$ 6,403	5,423	–	11,826	4,027	2,968	–	6,995
Payables to Hetchy Power	–	–	5,601	5,601	–	–	7,637	7,637
Receivables from CleanPowerSF	–	5,601	–	5,601	–	7,637	–	7,637
Receivables from Wastewater	–	1,061	–	1,061	1,166	–	–	1,166
Unrealized loss on investments	695	1,014	70	1,779	45	81	6	132

See accompanying notes to financial statements.

(1) Description of Reporting Entity

San Francisco Hetch Hetchy Water and Power (Hetch Hetchy or the Enterprise) was established as a result of the Raker Act of 1913, which granted water and power resources rights-of-way on the Tuolumne River in Yosemite National Park and Stanislaus National Forest to the City and County of San Francisco (the City). CleanPowerSF, launched in May 2016, provides green electricity from renewable sources to residential and commercial customers in San Francisco and was reported as part of Hetchy Power in fiscal year 2016. Hetch Hetchy is a stand-alone enterprise comprised of three funds, Hetchy Power (aka the Power Enterprise), CleanPowerSF and Hetchy Water, the portion of the Water Enterprise's operations, specifically the upcountry water supply and transmission service. Hetch Hetchy accounts for the activities of Hetch Hetchy Water and Power and is engaged in the collection and conveyance of approximately 85% of the City's water supply and in the generation and transmission of electricity from that resource, as well as the City Power services including energy efficiency and renewables.

Approximately 81% of the electricity generated by Hetchy Power is used to provide electric service to the City's municipal customers (including the San Francisco Municipal Transportation Agency, Recreation and Parks Department, the Port of San Francisco, the San Francisco International Airport and its tenants, San Francisco General Hospital, streetlights, Moscone Convention Center, and the Water and Wastewater Enterprises). The majority of the remaining 19% balance of electricity is sold to CleanPowerSF and other utility districts. As a result of the 1913 Raker Act, energy produced above the City's Municipal Load is sold first to the Districts to cover their agricultural pumping and municipal load needs and any remaining energy is either sold to other municipalities and/or government agencies (not for resale) or sold into the California Independent System Operator (CAISO). Hetch Hetchy operation is an integrated system of reservoirs, hydroelectric power plants, aqueducts, pipelines, and transmission lines.

Hetch Hetchy also purchases wholesale electric power from various energy providers that are used in conjunction with owned hydro resources to meet the power requirements of its customers. Operations and business decisions can be greatly influenced by market conditions, state and federal power matters before the California Public Utilities Commission (CPUC), the CAISO, and the Federal Energy Regulatory Commission (FERC). Therefore, Hetch Hetchy serves as the City's representative at CPUC, CAISO, and FERC forums and continues to monitor regulatory proceedings.

Until August 1, 2008, the San Francisco Public Utilities Commission (SFPUC) consisted of five members, all appointed by the Mayor. Proposition E, a City and County of San Francisco Charter amendment approved by the voters in the June 3, 2008 election, terminated the terms of all five existing members of the SFPUC, changed the process for appointing new members, and set qualifications for all members. Under the amended Charter, the Mayor continues to nominate candidates to the SFPUC, but nominees do not take office until the Board of Supervisors votes to approve their appointments by a majority (at least six members). The amended Charter provides for staggered four-year terms for SFPUC members and requires them to meet the following qualifications:

- Seat 1 must have experience in environmental policy and an understanding of environmental justice issues.
- Seat 2 must have experience in ratepayer or consumer advocacy.
- Seat 3 must have experience in project finance.
- Seat 4 must have expertise in water systems, power systems, or public utility management.
- Seat 5 is an at-large member.

The SFPUC is a department of the City, and as such, the financial operations of Hetch Hetchy, Wastewater, and the Water Enterprises are included in the Comprehensive Annual Financial Report of the City as enterprise funds. These financial statements are intended to present only the financial position, and the changes in financial position and cash flows of only that portion of the City that is attributable to the transactions of Hetch Hetchy. They do not purport to, and do not, present fairly the financial position of the City as of June 30, 2018 and 2017, and the changes in its financial position, or, where applicable, the cash flows for the years then ended, in conformity with U.S. generally accepted accounting principles (GAAP).

(2) Significant Accounting Policies

(a) *Basis of Accounting and Measurement Focus*

The accounts of Hetch Hetchy are organized on the basis of proprietary fund types and are included as enterprise funds of the City. The activities of Hetch Hetchy and each fund are accounted for with a separate set of self-balancing accounts that comprise Hetch Hetchy's and each fund's assets, deferred outflows, liabilities, deferred inflows, net position, revenues, and expenses. Enterprise funds account for activities (i) that are financed with debt that is secured solely by a pledge of the net revenues from fees and charges of the activity; or (ii) that are required by laws or regulations that the activity's costs of providing services, including capital costs (such as depreciation or debt service), be recovered with fees and charges, rather than with taxes or similar revenues; or (iii) that the pricing policies of the activity establish fees and charges designed to recover its costs, including capital costs (such as depreciation or debt service).

The financial activities of Hetch Hetchy are accounted for on a flow of economic resources measurement focus, using the accrual basis of accounting in accordance with U.S. GAAP. Under this method, all assets and liabilities associated with operations are included on the statements of net position, revenues are recognized when earned, and expenses are recognized when liabilities are incurred. Operating revenues are defined as charges to customers and rental income.

Hetch Hetchy applies all applicable Governmental Accounting Standards Board (GASB) pronouncements.

(b) *Cash and Cash Equivalents*

Hetch Hetchy considers its pooled deposits and investments held with the City Treasury to be demand deposits and, therefore, cash and cash equivalents for financial reporting. The City Treasury also holds non-pooled cash and investments for the Enterprise. Non-pooled restricted deposits and restricted deposits and investments held outside the City Treasury with original maturities of three months or less are considered to be cash equivalents.

(c) *Investments*

Money market funds are carried at cost, which approximates fair value. All other investments are stated at fair value based upon quoted market prices. Changes in fair value are recognized as investment gains or losses and are recorded as a component of non-operating revenues.

(Continued)

(d) *Inventory*

Inventory consists primarily of construction materials and maintenance supplies and is valued at average cost. Inventory is expensed as it is consumed.

(e) *Capital Assets*

Capital assets are defined as assets with an initial individual cost of more than $5 and an estimated useful life in excess of one year. Capital assets with an original acquisition date prior to July 1, 1977 are recorded in the financial statements at estimated cost, as determined by an independent professional appraisal, or at cost, if known. All subsequent acquisitions have been recorded at cost. All donated capital assets are valued at acquisition value at the time of donation. Depreciation and amortization are computed using the straight-line method over the estimated useful lives of the related assets, which range from 1 to 100 years for equipment and 1 to 200 years for buildings, structures, and improvements. No depreciation or amortization is recorded in the year of acquisition, and depreciation or amortization is recorded in the year of disposal.

(f) *Intangible Assets*

Under GASB Statement No. 51, *Accounting and Financial Reporting for Intangible Assets,* intangible assets are defined as identifiable, non-financial assets capable of being separated, sold, transferred, or licensed, and include contractual or legal rights. Examples of intangible assets include rights-of-way easements, land use rights, water rights, licenses, and permits. The accounting pronouncement also provides guidance on the capitalization of internally generated intangible assets, such as the development and installation of computer software by or on behalf of the reporting entity.

According to the standard, Hetch Hetchy is required to capitalize intangible assets with a useful life extending beyond one reporting period. Hetch Hetchy has established a capitalization threshold of $100. GASB Statement No. 51 also requires amortization of intangible assets over the benefit period, except for certain assets having an indefinite useful life. Assets with an indefinite useful life generally provide a benefit that is not constrained by legal or contractual limitations or any other external factor and, therefore, are not amortized (see Note 4).

(g) *Construction Work In Progress*

The cost of acquisition and construction of major plant and equipment is recorded as construction work in progress. Costs of construction projects that are discontinued are recorded as expense in the year in which the decision is made to discontinue such projects.

(h) *Capitalization of Interest*

A portion of the interest cost incurred on capital projects is capitalized on assets that require a period of time for construction or to otherwise prepare them for their intended use. Such amounts are amortized over the useful lives of the assets (see Note 4).

(i) *Bond Discount, Premium, and Issuance Costs*

Bond issuance costs related to prepaid insurance costs are capitalized and amortized using the effective interest method. Other bond issuance costs are expensed when incurred. Original issue bond discount or premium are offset against the related debt and are also amortized using the effective interest method.

(j) *Accrued Vacation and Sick Leave*

Accrued vacation pay, which may be accumulated up to 10 weeks per employee, is charged to expense as earned. Sick leave earned subsequent to December 6, 1978 is non-vesting and may be accumulated up to six months per employee.

(k) *Workers' Compensation*

The Enterprise is self-insured for workers' compensation claims and accrues the estimated cost of those claims, including the estimated cost of incurred but not reported claims (see Note 12(c)).

(l) *General Liability*

The Enterprise is self-insured for general liability and uninsurable property damage claims. Commercially uninsurable property includes assets that are underground or provide transmission and distribution. Maintained commercial coverage does not cover claims attributed to loss from earthquake, contamination, pollution remediation efforts, and other specific naturally occurring contaminants such as mold. The liability represents an estimate of the cost of all outstanding claims, including adverse loss development and estimated incurred but not reported claims (see Note 12(a)).

(m) *Arbitrage Rebate Payable*

Certain bonds are subject to arbitrage rebate requirements in accordance with regulations issued by the U.S. Treasury Department. The requirements of the Clean Renewable Energy Bonds (CREBs), the Qualified Energy Conservation Bonds (QECBs), and the New Clean Renewable Energy Bonds (NCREBs) stipulate that the first payment of excess investment earnings, if any, is required to be rebated to the federal government, no later than 60 days after the end of the fifth bond year of the agreement. Hetch Hetchy did not have any arbitrage liability as of June 30, 2018 and 2017.

(n) *Income Taxes*

As a department of a government agency, the Enterprise is exempt from both federal income taxes and California State franchise taxes.

(o) *Revenue Recognition*

Water and power revenues are based on water and power consumption and billing rates. Generally, customers are billed monthly. Revenues earned but unbilled are accrued as charges for services receivables on the Statements of Net Position.

(p) *Use of Estimates*

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

(Dollars in thousands, unless otherwise stated)

(q) *Eliminations*

Eliminations for internal activities between the Hetchy Power and CleanPowerSF are made in the Statements of Net Position. There were activities requiring eliminations during the fiscal years ended June 30, 2018 and 2017.

(r) *Accounting and Financial Reporting for Pollution Remediation Obligations*

According to GASB Statement No. 49, *Accounting and Financial Reporting for Pollution Remediation Obligations*, a government would have to estimate its expected outlays for pollution remediation if it knows a site is polluted and any of the following recognition triggers occur:

- Pollution poses an imminent danger to the public or environment and a government has little or no discretion to avoid fixing the problem;
- A government has violated a pollution prevention-related permit or license;
- A regulator has identified (or evidence indicates it will identify) a government as responsible (or potentially responsible) for cleaning up pollution, or for paying all or some of the cost of the cleanup;
- A government is named (or evidence indicates that it will be named) in a lawsuit to compel it to address the pollution; or
- A government begins or legally obligates itself to begin cleanup or post-cleanup activities (limited to amounts the government is legally required to complete).

As a part of ongoing operations, situations may occur requiring the removal of pollution or other hazardous material. These situations typically arise in the process of acquiring an asset, preparing an asset for its intended use, or during the Design Phase of projects under review by the project managers. Other times, pollution may arise during the implementation and construction of a major or minor capital project. Examples of pollution may include, but are not limited to, asbestos or lead paint removal; leaking of sewage in underground pipes or neighboring areas; chemical spills; removal and disposal of known toxic waste; harmful biological and chemical pollution of water; or contamination of surrounding soils by underground storage tanks (see Note 13(c)).

(s) *Other Post-employment Benefits Other Than Pensions (OPEB)*

As prescribed under GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other than Pensions*, net OPEB liability, deferred outflows/inflows of resources related to OPEB, and OPEB expense are actuarially determined on a citywide basis. Net OPEB liability is measured as the portion of the present value of projected benefit payments to be provided to current active and inactive employees attributed to those employees' past service, less the amount of the Retiree Healthcare Trust Fund investments measured at fair value.

The provision of GASB Statement No. 75 is effective for Hetch Hetchy's year ending June 30, 2018. While restatement of all prior periods was not practical because the actuarial information was not available, the cumulative effect of applying this Statement is reported as a restatement of beginning net position as of July 1, 2017 as follows:

Record Beginning Net OPEB Liability	$	34,399
Record Beginning Deferred Outflows of Resources - OPEB items		(1,781)
Remove Net OPEB Obligation (Change from GASB Statement No. 45)		(28,222)
Total Cumulative Effect of Change in Accounting Principle	$	4,396

(t) *New Accounting Standards Adopted in Fiscal Year 2018*

1) In June 2015, the GASB issued Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefit Other Than Pension Plans.* GASB Statement No. 75 revises and establishes new accounting and financial reporting requirements for governments that provides their employees with other post-employment benefits other than pensions (OPEB). The new standard is effective for periods beginning after June 15, 2017. The Enterprise adopted the provisions of this Statement. Refer to Note 10(b) for details.

2) In March 2016, the GASB issued Statement No. 81, *Irrevocable Split-Interest Agreements*. GASB Statement No. 81 establishes accounting and financial reporting standards for irrevocable split-interest agreement created through trusts in which a donor irrevocably transfers resources to an intermediary. The new standard is effective for periods beginning after December 15, 2016. The enterprise adopted the provisions of this Statement, which did not have a significant impact on its financial statements.

3) In March 2017, the GASB issued Statement No. 85, *Omnibus 2017*. GASB Statement No. 85 addresses practice issues identified during the implementation and application of certain GASB Statements. The new standard is effective for periods beginning after June 15, 2017. The Enterprise adopted the provisions of this Statement, which did not have a significant impact on its financial statements.

4) In May 2017, the GASB issued Statement No. 86, *Certain Debt Extinguishment Issues*. GASB Statement No. 86 improves accounting and financial reporting for in-substance defeasance of debt using existing resources other than proceeds of refunding debt. The new standard is effective for periods beginning after June 15, 2017. The Enterprise adopted the provisions of this Statement, which did not have a significant impact on its financial statements.

(u) *GASB Statements Implemented in Fiscal Year 2017*

1) In June 2015, the GASB issued Statement No. 73, *Accounting and Financial Reporting for Pensions and Related Assets That are Not within the Scope of GASB Statement 68, and Amendments to Certain Provisions of GASB Statements 67 and 68*. GASB Statement No. 73 addresses accounting and financial reporting for pensions provided by governments that are not within the scope of GASB Statement No. 68. The new standard is effective for periods beginning after June 15, 2016. The Enterprise adopted the provisions of this Statement, which did not have a significant impact on its financial statements.

2) In August 2015, the GASB issued Statement No. 77, *Tax Abatement Disclosures*. GASB Statement No. 77 establishes financial reporting standards for tax abatement agreements entered into by state and local governments. The new standard is effective for periods beginning after December 15, 2015. The Enterprise adopted the provisions of this Statement, which did not have a significant impact on its financial statements.

3) In December 2015, the GASB issued Statement No. 78, *Pensions Provided through Certain Multiple-Employer Defined Benefit Pension Plans*. GASB Statement No. 78 establishes accounting and financial reporting standards for defined benefit pensions provided by state or local governments through a cost-sharing plan that meets the criteria of Statement No. 68 and is not a state or local governmental pension plan. The new standard is effective for periods beginning after December 15, 2015. The Enterprise adopted the provisions of this Statement, which did not have a significant impact on its financial statements.

(v) *Future Implementation of New Accounting Standards*

1) In November 2016, the GASB issued Statement No. 83, *Certain Asset Retirement Obligations*. GASB Statement No. 83 establishes accounting and financial reporting standards for certain asset retirement obligations (AROs). The new standard is effective for periods beginning after June 15, 2018. The Enterprise will implement the provisions of Statement No. 83 in fiscal year 2019.

2) In January 2017, the GASB issued Statement No. 84, *Fiduciary Activities*. GASB Statement No. 84 establishes criteria for state and local governments to identify fiduciary activities and how those activities should be reported. The new standard is effective for periods beginning after December 15, 2018. The Enterprise will implement the provisions of Statement No. 84 in fiscal year 2020.

3) In June 2017, the GASB issued Statement No. 87, *Leases*. GASB Statement No. 87 establishes a single model for lease accounting and requires reporting of certain lease liabilities that currently are not reported. The new standard is effective for periods beginning after December 15, 2019. The Enterprise will implement the provisions of Statement No. 87 in fiscal year 2021.

4) In March 2018, the GASB issued Statement No. 88, *Certain Disclosures Related to Debt, Including Direct Borrowings and Direct Placements*. GASB Statement No. 88 establishes additional financial statement note disclosure requirements related to debt obligations of governments, including direct borrowings and direct placements. The new standard is effective for periods beginning after June 15, 2018. The Enterprise will implement the provisions of Statement No. 88 in fiscal year 2019.

5) In June 2018, the GASB issued Statement No. 89, *Accounting for Interest Cost Incurred before the End of a Construction Period*. GASB Statement No. 89 establishes accounting requirements for interest cost incurred before the end of a construction period. The new standard is effective for periods beginning after December 15, 2019. The Enterprise will implement the provisions of Statement No. 89 in fiscal year 2021.

6) In August 2018, the GASB issued Statement No. 90, *Accounting and Financial Reporting for Majority Equity Interests*. GASB Statement No. 90 provides clarification when a government should report a majority equity interest in a legally separate organization as either a component unit or an investment. The new standard is effective for periods beginning after December 15, 2018. The Enterprise will implement the provisions of Statement No. 90 in fiscal year 2020.

(3) Cash, Cash Equivalents, and Investments

Hetch Hetchy's cash, cash equivalents, and investments with the City Treasury are invested in an unrated City pool pursuant to investment policy guidelines established by the City Treasurer. The objectives of the policy guidelines are, in order of priority, preservation of capital, liquidity, and yield. The policy addresses soundness of financial institutions in which the City will deposit funds, types of investment instruments as permitted by the California Government Code, and the percentage of the portfolio, which may be invested in certain instruments with longer terms to maturity. The City Treasurer allocates income from the investment of pooled cash at month-end in proportion to Hetch Hetchy's average daily cash balances. The primary objectives of Hetch Hetchy's investment policy are consistent with the City and County's policy.

(Dollars in thousands, unless otherwise stated)

Restricted assets are held by an independent trustee outside the City's investment pool. The assets are held for the purpose of paying future interest and principal on the bonds and for eligible capital project expenditures. The balances as of June 30, 2018 and 2017 were $3,815 and $3,783, respectively. The Enterprise held all investments in guaranteed investment contracts, treasury and government obligations, commercial paper, corporate bonds, and notes, as well as money market mutual funds consisting of treasury and government obligations. The balance as of June 30, 2018 included 2015 Series A bonds proceeds of $2,132, certificates of participation proceeds of $1,177, 2015 Series B bonds proceeds of $501, commercial paper of $5, and $10 held at a commercial bank in a non-interest bearing checking account that is covered by depository insurance. The balance as of June 30, 2017 included 2015 Series A bonds proceeds of $2,113, certificates of participation proceeds of $1,171, 2015 Series B bonds proceeds of $497, commercial paper of $2 and $10 held at a commercial bank in a non-interest bearing checking account that is covered by depository insurance.

The restricted cash and investments outside City Treasury as of June 30, 2018 and 2017 included $0 and $2 unrealized gain due to changes in fair values on U.S. Agencies, respectively.

Hetch Hetchy categorizes its fair value measurements within the fair value hierarchy established by GAAP. The hierarchy is based on the valuation inputs used to measure fair value of the assets. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; and Level 3 inputs are significant unobservable inputs. The inputs and techniques used for valuing securities are not necessarily an indication of risk associated with investing in those securities.

The following is a summary of the Hetch Hetchy restricted and unrestricted cash and investments outside City Treasury and the fair value hierarchy as of June 30, 2018 and 2017.

Hetch Hetchy Cash and Investments outside City Treasury

					Fair Value Measurements Using		
Investments	Credit Ratings (S&P/Moody's)	June 30, 2018 Maturities	June 30, 2018 Fair Value	Investments exempt from fair value	Quoted prices in active markets for identical assets (Level 1)	Significant other observable inputs (Level 2)	Unobservable Inputs (Level 3)
U.S. Agencies	AA+/Aaa	March 20, 2020	$ 1,038	–	–	1,038	–
U.S. Treasury Money Market Funds	AAAm/Aaa-mf	< 90 days	2,772	2,772	–	–	–
Cash and Cash Equivalents	N/A		5	5	–	–	–
Total Restricted Cash and Investments outside City Treasury			$ 3,815	2,777	–	1,038	–
Cash and Cash Equivalents	N/A		10	10	–	–	–
Total Cash and Investments outside City Treasury			$ 10	10	–	–	–

(Dollars in thousands, unless otherwise stated)

Hetch Hetchy Cash and Investments outside City Treasury

Investments	Credit Ratings (S&P/Moody's)	June 30, 2017 Maturities	June 30, 2017 Fair Value	Investments exempt from fair value	Fair Value Measurements Using: Quoted prices in active markets for identical assets (Level 1)	Significant other observable inputs (Level 2)	Unobservable Inputs (Level 3)
U.S. Agencies	AA+/Aaa	October 13, 2017	$ 2,582	–	–	2,582	–
U.S. Treasury Money Market Funds	AAAm/Aaa-mf	< 90 days	1,201	1,201	–	–	–
Total Restricted Cash and Investments outside City Treasury			$ 3,783	1,201	–	2,582	–
Cash and Cash Equivalents	N/A		10	10	–	–	–
Total Cash and Investments outside City Treasury			$ 10	10	–	–	–

For fiscal year 2018, proceeds from 2015 Series A and B bonds held as restricted cash and investments outside City Treasury in the amount of $2,633 were invested in U.S. Treasury Money Market with maturity date less than 90 days, and $5 in cash and cash equivalents. The credit ratings of the U.S. Treasury Money Market as of June 30, 2018 were “AAAm” by S&P and “Aaa-mf” by Moody’s. For fiscal year 2017, proceeds from 2015 Series A and B bonds held as restricted cash and investments outside City Treasury in the amount of $2,582 were invested in U.S. Agencies with a maturity date of October 13, 2017. The credit ratings of the U.S. Agencies as of June 30, 2017 were “AA+” by S&P and “Aaa” by Moody’s.

Hetch Hetchy’s cash, cash equivalents, and investments are shown on the accompanying Statements of Net Position as of June 30, 2018 and 2017:

	Hetchy Water	Hetchy Power	CleanPowerSF	Total 2018
Current assets:				
Cash and investments with City Treasury	$ 78,283	184,193	12,395	274,871
Cash and investments outside City Treasury	2	8	—	10
Restricted cash and investments outside City Treasury	—	2,777	—	2,777
Non-current assets:				
Restricted cash and investments with City Treasury	18,137	23,283	—	41,420
Restricted cash and investments outside City Treasury	—	1,038	—	1,038
Total cash, cash equivalents, and investments	$ 96,422	211,299	12,395	320,116

	Hetchy Water	Hetchy Power	CleanPowerSF	Total 2017
Current assets:				
Cash and investments with City Treasury	$ 75,345	174,633	14,048	264,026
Cash and investments outside City Treasury	2	8	—	10
Restricted cash and investments outside City Treasury	—	3,783	—	3,783
Non-current assets:				
Restricted cash and investments with City Treasury	4,154	35,998	—	40,152
Total cash, cash equivalents, and investments	$ 79,501	214,422	14,048	307,971

(Dollars in thousands, unless otherwise stated)

The following table shows the percentage distribution of the City's pooled investment by maturity:

Fiscal years ended June 30	Investment maturities (in months) Under 1	1 to less than 6	6 to less than 12	12 to 60
2018	14.3%	22.1%	18.5%	45.1%
2017	20.1%	21.2%	18.0%	40.7%

(4) Capital Assets

(a) Hetch Hetchy capital assets as of June 30, 2018 and 2017 consist of the following:

Capital assets with a useful life of 50 years or greater include buildings and structures, reservoirs, dams, power stations, certain water mains and pipelines, transmission and distribution systems, tunnels, and bridges.

	2017	Increases	Decreases	2018
Capital assets not being depreciated and amortized:				
Land and rights-of-way	$ 4,787	394	–	5,181
Intangible assets	1,437	–	–	1,437
Construction work in progress	97,278	53,608	(42,369) *	108,517
Total capital assets not being depreciated and amortized	103,502	54,002	(42,369)	115,135
Capital assets being depreciated and amortized:				
Facilities and improvements	603,694	38,912	–	642,606
Intangible assets	45,715	–	–	45,715
Machinery and equipment	128,041	3,352	(996)	130,397
Total capital assets being depreciated and amortized	777,450	42,264 *	(996)	818,718
Less accumulated depreciation and amortization for:				
Facilities and improvements	(348,258)	(12,851)	–	(361,109)
Intangible assets	(20,376)	(461)	–	(20,837)
Machinery and equipment	(67,597)	(5,803)	915	(72,485)
Total accumulated depreciation and amortization	(436,231)	(19,115)	915	(454,431)
Total capital assets being depreciated and amortized, net	341,219	23,149	(81)	364,287
Total capital assets, net	$ 444,721	77,151	(42,450)	479,422

* Decrease in construction work in progress is greater than increase in capital assets being depreciated is explained by $58 in capital project write-offs, mainly related to Communication Systems Upgrades, Road Improvement Project, and San Joaquin Pipeline Rehabilitation Project.

(Dollars in thousands, unless otherwise stated)

		2016	Increases	Decreases	2017
Capital assets not being depreciated and amortized:					
Land and rights-of-way	$	4,665	127	(5)	4,787
Intangible assets		1,437	–	–	1,437
Construction work in progress		85,449	58,166	(46,337) *	97,278
Total capital assets not being depreciated and amortized		91,551	58,293	(46,342)	103,502
Capital assets being depreciated and amortized:					
Facilities and improvements		563,228	40,466	–	603,694
Intangible assets		45,715	–	–	45,715
Machinery and equipment		122,575	5,785	(319)	128,041
Total capital assets being depreciated and amortized		731,518	46,251 *	(319)	777,450
Less accumulated depreciation and amortization for:					
Facilities and improvements		(336,797)	(11,461)	–	(348,258)
Intangible assets		(19,915)	(461)	–	(20,376)
Machinery and equipment		(62,108)	(5,808)	319	(67,597)
Total accumulated depreciation and amortization		(418,820)	(17,730)	319	(436,231)
Total capital assets being depreciated and amortized, net		312,698	28,521	–	341,219
Total capital assets, net	$	404,249	86,814	(46,342)	444,721

* Decrease in construction work in progress is greater than increase in capital assets being depreciated is explained by $1,482 in capital project write-offs, mainly related to Mountain Tunnel Inspection and Repair Projects, Transmission and Distribution System Project, San Joaquin Pipeline Rehabilitation Project, and Oil Containment Project.

(b) Hetchy Water capital assets as of June 30, 2018 and 2017 consist of the following:

		2017	Increases	Decreases	2018
Capital assets not being depreciated and amortized:					
Land and rights-of-way	$	3,055	177	–	3,232
Intangible assets		6	–	–	6
Construction work in progress		26,479	17,041	(15,194) *	28,326
Total capital assets not being depreciated and amortized		29,540	17,218	(15,194)	31,564
Capital assets being depreciated and amortized:					
Facilities and improvements		235,604	14,074	–	249,678
Intangible assets		20,522	–	–	20,522
Machinery and equipment		25,535	1,036	(72)	26,499
Total capital assets being depreciated and amortized		281,661	15,110 *	(72)	296,699
Less accumulated depreciation and amortization for:					
Facilities and improvements		(158,429)	(3,638)	–	(162,067)
Intangible assets		(9,118)	(207)	–	(9,325)
Machinery and equipment		(15,923)	(1,221)	72	(17,072)
Total accumulated depreciation and amortization		(183,470)	(5,066)	72	(188,464)
Total capital assets being depreciated and amortized, net		98,191	10,044	–	108,235
Total capital assets, net	$	127,731	27,262	(15,194)	139,799

* Decrease in construction work in progress includes $28 in capital project write-offs, mainly related to Hetchy Water's share of Communication Systems Upgrades, Road Improvement Project, and San Joaquin Pipeline Rehabilitation Project.

(Dollars in thousands, unless otherwise stated)

	2016	Increases	Decreases	2017
Capital assets not being depreciated and amortized:				
Land and rights-of-way	$ 3,003	57	(5)	3,055
Intangible assets	6	–	–	6
Construction work in progress	26,509	18,380	(18,410) *	26,479
Total capital assets not being depreciated and amortized	29,518	18,437	(18,415)	29,540
Capital assets being depreciated and amortized:				
Facilities and improvements	218,618	16,986	–	235,604
Intangible assets	20,522	–	–	20,522
Machinery and equipment	24,318	1,361	(144)	25,535
Total capital assets being depreciated and amortized	263,458	18,347 *	(144)	281,661
Less accumulated depreciation and amortization for:				
Facilities and improvements	(155,343)	(3,086)	–	(158,429)
Intangible assets	(8,910)	(208)	–	(9,118)
Machinery and equipment	(14,856)	(1,211)	144	(15,923)
Total accumulated depreciation and amortization	(179,109)	(4,505)	144	(183,470)
Total capital assets being depreciated and amortized, net	84,349	13,842	–	98,191
Total capital assets, net	$ 113,867	32,279	(18,415)	127,731

* Decrease in construction work in progress is greater than increase in capital assets being depreciated is explained by $499 in capital project write-offs, mainly related to Hetchy Water's share of Mountain Tunnel Inspection Projects, and San Joaquin Pipeline Rehabilitation Project.

(c) Hetchy Power capital assets as of June 30, 2018 and 2017 consist of the following:

	2017	Increases	Decreases	2018
Capital assets not being depreciated and amortized:				
Land and rights-of-way	$ 1,732	217	–	1,949
Intangible assets	1,431	–	–	1,431
Construction work in progress	70,799	36,567	(27,175) *	80,191
Total capital assets not being depreciated and amortized	73,962	36,784	(27,175)	83,571
Capital assets being depreciated and amortized:				
Facilities and improvements	368,090	24,838	–	392,928
Intangible assets	25,193	–	–	25,193
Machinery and equipment	102,506	2,316	(924)	103,898
Total capital assets being depreciated and amortized	495,789	27,154 *	(924)	522,019
Less accumulated depreciation and amortization for:				
Facilities and improvements	(189,829)	(9,213)	–	(199,042)
Intangible assets	(11,258)	(254)	–	(11,512)
Machinery and equipment	(51,674)	(4,582)	843	(55,413)
Total accumulated depreciation and amortization	(252,761)	(14,049)	843	(265,967)
Total capital assets being depreciated and amortized, net	243,028	13,105	(81)	256,052
Total capital assets, net	$ 316,990	49,889	(27,256)	339,623

* Decrease in construction work in progress is greater than increase in capital assets being depreciated is explained by $30 in capital project write-offs, mainly related to Hetchy Power's share of Communication Systems Upgrades, and Road Improvement Project.

(Dollars in thousands, unless otherwise stated)

		2016	Increases	Decreases	2017
Capital assets not being depreciated and amortized:					
Land and rights-of-way	$	1,662	70	–	1,732
Intangible assets		1,431	–	–	1,431
Construction work in progress		58,940	39,786	(27,927) *	70,799
Total capital assets not being depreciated and amortized		62,033	39,856	(27,927)	73,962
Capital assets being depreciated and amortized:					
Facilities and improvements		344,610	23,480	–	368,090
Intangible assets		25,193	–	–	25,193
Machinery and equipment		98,257	4,424	(175)	102,506
Total capital assets being depreciated and amortized		468,060	27,904 *	(175)	495,789
Less accumulated depreciation and amortization for:					
Facilities and improvements		(181,454)	(8,375)	–	(189,829)
Intangible assets		(11,005)	(253)	–	(11,258)
Machinery and equipment		(47,252)	(4,597)	175	(51,674)
Total accumulated depreciation and amortization		(239,711)	(13,225)	175	(252,761)
Total capital assets being depreciated and amortized, net		228,349	14,679	–	243,028
Total capital assets, net	$	290,382	54,535	(27,927)	316,990

* Decrease in construction work in progress is greater than increase in capital assets being depreciated is explained by $983 in capital project write-offs, mainly related to Hetchy Power's share of Mountain Tunnel Inspection Projects, Transmission and Distribution System Project, and Oil Containment Project.

During fiscal year 2018, Hetchy Water and Hetchy Power expensed $28 and $30, respectively, related to repair and maintenance costs on various Hetch Hetchy projects. Hetch Hetchy write-offs of $58 collectively were primarily related to projects for Communication Systems Upgrades, Road Improvement, and San Joaquin Pipeline Rehabilitation. During fiscal year 2017, Hetchy Water and Hetchy Power expensed $499 and $983, respectively, related to repair and maintenance costs on various Hetch Hetchy projects. Hetch Hetchy write-offs of $1,482 collectively were primarily related to projects for Mountain Tunnel Inspection and Repair, Transmission and Distribution System, San Joaquin Pipeline Rehabilitation, and Oil Containment.

GASB Statement No. 62, *Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 Financial Accounting Standards Board (FASB) and American Institute of Certified Public Accountants (AICPA) Pronouncements*, requires that interest expense incurred during construction of assets be capitalized. Interest included in the construction work in progress and total interest expense incurred during the years ended June 30, 2018 and 2017 are as follows:

Hetchy Power		2018	2017
Interest expensed	$	3,103	3,200
Interest included in construction work in progress		413	259
Total interest incurred	$	3,516	3,459

(5) Restricted Assets

Pursuant to the Hetchy Power Trust Indenture (the "Indenture"), established in fiscal year 2015, net revenues of the Hetchy Power are pledged first to the 2015 Series AB Bonds, and have a priority lien on the pledge of net revenues to the outstanding CREBs, QECBs, and NCREBs (the "Subordinate Obligations"). The Lease/Purchase Agreements for the Subordinate Obligations pledge the net revenues of the Hetchy Power to these bonds, and such pledge is subordinate in lien to the net revenues pledge for the 2015 Series AB Bonds (the "Bonds" or "Bond").

(Dollars in thousands, unless otherwise stated)

In the Indenture, the SFPUC covenants and agrees that it will pay into the Revenue Fund as received all Revenues of Hetchy Power and shall be used and applied, as provided by the Indenture, solely for the purposes of operating and maintaining Hetchy Power and paying all costs, charges, and expenses in connection therewith and for the purpose of making repairs, renewals, and replacements to Hetchy Power and constructing additions, betterments, and extensions thereto.

The Indenture provides that Revenues deposited in the Revenue Fund shall be disbursed in the following order of priority:

1. The payment of operation and maintenance expenses;
2. Any priority reconstruction and replacement fund deposits;
3. Deposit in the interest account of each Bond Fund;
4. Deposit in the bond retirement account of each Bond Fund;
5. Deposit in the reserve fund;
6. (i) Payment of principal and premium, if any, and interest on any Subordinate Obligations; (ii) deposit into a reserve fund securing any Subordinate Obligations; (iii) Swap Agreement payments pursuant to Swap Agreements entered into by the SFPUC with respect to any Subordinate Obligations; and (iv) payment to any financial institution or insurance company providing any letter of credit, line of credit, or other credit or liquidity facility, including municipal bond insurance and guarantees, that secures the payment of principal of or interest on any Subordinate Obligations; in each case in any order of priority within this paragraph which may be hereafter established by the SFPUC by resolution;
7. Any additional reconstruction and replacement fund deposits into the reconstruction and replacement fund;
8. Any necessary or desirable capital additions or improvements to the Hetchy Power;
9. Any payment under a Take-or-Pay Power Purchase Agreement that does not constitute an operation and maintenance expense;
10. Any payment under a Swap Agreement that does not constitute a Swap Agreement payment; and
11. Any other lawful purpose of the SFPUC.

In the Indenture, the SFPUC covenants and agrees to transfer to the Trustee for deposit in the Interest Account of each applicable Bond Fund all Refundable Credits received by the SFPUC.

In accordance with the Agreements, Hetch Hetchy maintains certain restricted cash and investment balances in trust.

(a) Hetchy Water has the following restricted assets held in trust as of June 30, 2018 and 2017:

	2018	2017
Cash and investments with City Treasury:		
Hetch Hetchy bond construction fund	$ 18,137	4,154
Total restricted assets	$ 18,137	4,154

(Dollars in thousands, unless otherwise stated)

(b) Hetchy Power has the following restricted assets held in trust as of June 30, 2018 and 2017:

	2018	2017
Cash and investments with City Treasury:		
Hetch Hetchy bond construction fund	$ 23,283	35,998
Cash and investments outside City Treasury:		
2009 Series C Certificates of participation - 525 Golden Gate	237	236
2009 Series D Certificates of participation - 525 Golden Gate	940	935
2015 Series A Revenue Bonds	2,132	2,113
2015 Series B Revenue Bonds	501	497
Commercial Paper	5	2
Total restricted cash and investments outside City Treasury	3,815	3,783
Interest receivable:		
Hetch Hetchy bond construction fund	174	268
Total restricted assets	$ 27,272	40,049

Restricted assets listed above as cash and investments with City Treasury are held in subfunds accounts within the Hetch Hetchy Revenue Fund.

(6) Short-Term Debt

Effective December 2015, under Charter Sections 9.107(6) and 9.107(8), the Commission and Board of Supervisors authorized the issuance of up to $90,000 in commercial paper notes for the purpose of reconstruction or replacement of existing generation, transmission, and distribution facilities of Hetchy Power. Interest rates for the commercial paper ranged from 0.85% to 1.64% in fiscal year 2018. The Enterprise had $20,280 and $20,058 commercial paper outstanding as of June 30, 2018 and 2017, respectively.

(Dollars in thousands, unless otherwise stated)

(7) Changes in Long-Term Liabilities

Hetch Hetchy's long-term liability activities for the years ended June 30, 2018 and 2017 are as follows:

	Interest rate	Maturity (Calendar Year)	2017	Additions	Reductions	2018	Due within one year
Bonds:							
Clean Renewable Energy Bonds	0.00 %	2022	$ 2,527	–	(418)	2,109	422
Qualified Energy Conservation Bonds	4.74	2027	5,817	–	(523)	5,294	529
New Clean Renewable Energy Bonds 2012	4.74	2020	1,839	–	(556)	1,283	570
New Clean Renewable Energy Bonds 2015	4.62	2032	3,877	–	(226)	3,651	229
2015 Series A Revenue Bonds	4.00 - 5.00	2045	32,025	–	–	32,025	–
2015 Series B Revenue Bonds	3.00 - 4.00	2026	7,530	–	(710)	6,820	730
Less issuance discount			(74)	–	12	(62)	–
Add issuance premiums			4,359	–	(238)	4,121	–
Total bonds payable			57,900	–	(2,659)	55,241	2,480
2009 Series C Certificates of participation (COPs)	2.00 - 5.00	2022	2,259	–	(331)	1,928	348
2009 Series C COPs issuance premiums			86	–	(26)	60	–
2009 Series D COPs (Build America)	6.36 - 6.49	2041	12,593	–	–	12,593	–
Other post-employment benefits obligations			28,222	9,244	(1,466)	36,000	–
Net pension liability			69,412	9,387	(21,677)	57,122	–
Accrued vacation and sick leave			3,623	6,218	(5,890)	3,951	2,385
Accrued workers' compensation			2,969	561	(581)	2,949	525
Damage claims liability			2,438	2,975	(2,947)	2,466	837
Total			$ 179,502	28,385	(35,577)	172,310	6,575

	Interest rate	Maturity (Calendar Year)	2016	Additions	Reductions	2017	Due within one year
Bonds:							
Clean Renewable Energy Bonds	0.00 %	2022	$ 2,949	–	(422)	2,527	422
Qualified Energy Conservation Bonds	4.74	2027	6,334	–	(517)	5,817	523
New Clean Renewable Energy Bonds 2012	4.74	2020	2,661	–	(822)	1,839	556
New Clean Renewable Energy Bonds 2015	4.62	2032	4,100	–	(223)	3,877	226
2015 Series A Revenue Bonds	4.00 - 5.00	2045	32,025	–	–	32,025	–
2015 Series B Revenue Bonds	3.00 - 4.00	2026	7,530	–	–	7,530	710
Less issuance discount			(88)	–	14	(74)	–
Add issuance premiums			4,599	–	(240)	4,359	–
Total bonds payable			60,110	–	(2,210)	57,900	2,437
2009 Series C Certificates of participation (COPs)	2.00 - 5.00	2022	2,574	–	(315)	2,259	331
2009 Series C COPs issuance premiums			114	–	(28)	86	–
2009 Series D COPs (Build America)	6.36 - 6.49	2041	12,593	–	–	12,593	–
Other post-employment benefits obligations			25,169	4,888	(1,835)	28,222	–
Net pension liability			26,874	48,774	(6,236)	69,412	–
Accrued vacation and sick leave			3,807	1,916	(2,100)	3,623	2,154
Accrued workers' compensation			2,964	861	(856)	2,969	548
Damage claims liability			1,861	3,146	(2,569)	2,438	991
Total			$ 136,066	59,585	(16,149)	179,502	6,461

(Dollars in thousands, unless otherwise stated)

a) Hetchy Water's long-term liability activities for the years ended June 30, 2018 and 2017 are as follows:

	2017	Additions	Reductions	2018	Due within one year
Other post-employment benefits obligations	$ 11,280	5,238	(646)	15,872	–
Net pension liability	31,235	3,639	(9,658)	25,216	–
Accrued vacation and sick leave	1,188	1,655	(1,520)	1,323	835
Accrued workers' compensation	999	207	(217)	989	174
Damage claims liability	586	786	(1,139)	233	110
Total	$ 45,288	11,525	(13,180)	43,633	1,119

	2016	Additions	Reductions	2017	Due within one year
Other post-employment benefits obligations	$ 9,945	2,157	(822)	11,280	–
Net pension liability	12,093	21,948	(2,806)	31,235	–
Accrued vacation and sick leave	1,287	425	(524)	1,188	741
Accrued workers' compensation	997	224	(222)	999	185
Damage claims liability	353	1,082	(849)	586	218
Total	$ 24,675	25,836	(5,223)	45,288	1,144

b) Hetchy Power's long-term liability activities for the years ended June 30, 2018 and 2017 are as follows:

	Interest rate	Maturity (Calendar Year)	2017	Additions	Reductions	2018	Due within one year
Bonds:							
Clean Renewable Energy Bonds	0.00 %	2022	$ 2,527	–	(418)	2,109	422
Qualified Energy Conservation Bonds	4.74	2027	5,817	–	(523)	5,294	529
New Clean Renewable Energy Bonds 2012	4.74	2020	1,839	–	(556)	1,283	570
New Clean Renewable Energy Bonds 2015	4.62	2032	3,877	–	(226)	3,651	229
2015 Series A Revenue Bonds	4.00 - 5.00	2045	32,025	–	–	32,025	–
2015 Series B Revenue Bonds	3.00 - 4.00	2026	7,530	–	(710)	6,820	730
Less issuance discount			(74)	–	12	(62)	–
Add issuance premiums			4,359	–	(238)	4,121	–
Total bonds payable			57,900	–	(2,659)	55,241	2,480
2009 Series C Certificates of participation (COPs)	2.00 - 5.00	2022	2,259	–	(331)	1,928	348
2009 Series C COPs issuance premiums			86	–	(26)	60	–
2009 Series D COPs (Build America)	6.36 - 6.49	2041	12,593	–	–	12,593	–
Other post-employment benefits obligations			16,855	3,335	(790)	19,400	–
Net pension liability			38,177	4,447	(11,805)	30,819	–
Accrued vacation and sick leave			2,397	4,495	(4,328)	2,564	1,504
Accrued workers' compensation			1,970	354	(364)	1,960	351
Damage claims liability			1,852	2,189	(1,808)	2,233	727
Total			$ 134,089	14,820	(22,111)	126,798	5,410

(Dollars in thousands, unless otherwise stated)

	Interest rate	Maturity (Calendar Year)	2016	Additions	Reductions	2017	Due within one year
Bonds:							
Clean Renewable Energy Bonds	0.00 %	2022	$ 2,949	–	(422)	2,527	422
Qualified Energy Conservation Bonds	4.74	2027	6,334	–	(517)	5,817	523
New Clean Renewable Energy Bonds 2012	4.74	2020	2,661	–	(822)	1,839	556
New Clean Renewable Energy Bonds 2015	4.62	2032	4,100	–	(223)	3,877	226
2015 Series A Revenue Bonds	4.00 - 5.00	2045	32,025	–	–	32,025	–
2015 Series B Revenue Bonds	3.00 - 4.00	2026	7,530	–	–	7,530	710
Less issuance discount			(88)	–	14	(74)	–
Add issuance premiums			4,599	–	(240)	4,359	–
Total bonds payable			60,110	–	(2,210)	57,900	2,437
2009 Series C Certificates of participation (COPs)	2.00 - 5.00	2022	2,574	–	(315)	2,259	331
2009 Series C COPs issuance premiums			114	–	(28)	86	–
2009 Series D COPs (Build America)	6.36 - 6.49	2041	12,593	–	–	12,593	–
Other post-employment benefits obligations			15,224	2,637	(1,006)	16,855	–
Net pension liability			14,781	26,826	(3,430)	38,177	–
Accrued vacation and sick leave			2,520	1,453	(1,576)	2,397	1,388
Accrued workers' compensation			1,967	637	(634)	1,970	363
Damage claims liability			1,508	2,064	(1,720)	1,852	773
Total			$ 111,391	33,617	(10,919)	134,089	5,292

c) CleanPowerSF's long-term liability activities for the years ended June 30, 2018 and 2017 are as follows:

	2017	Additions	Reductions	2018	Due within one year
Other post-employment benefits obligations	$ 87	671	(30)	728	–
Net pension liability	–	1,301	(214)	1,087	–
Accrued vacation and sick leave	38	68	(42)	64	46
Total	$ 125	2,040	(286)	1,879	46

	2016	Additions	Reductions	2017	Due within one year
Other post-employment benefits obligations	$ –	94	(7)	87	–
Accrued vacation and sick leave	–	38	–	38	25
Total	$ –	132	(7)	125	25

(a) *Clean Renewable Energy Bonds*

In November 2008, Hetchy Power issued $6,325 of taxable CREBs to finance the installation of solar energy equipment on City-owned facilities, including Chinatown Branch Library, Maxine Hall Medical Center, City Distribution Division Warehouse, North Point Wastewater Plant, Chinatown Public Health Center, Municipal Transportation Agency Woods, and Municipal Transportation Agency Ways and Structures. The CREBs were non-rated and privately-placed with Bank of America Leasing. The net effective interest rate on the CREBs, after the federal tax subsidy, is 0% through 2022. Hetchy Power began making principal payments in the amount of $422 on December 15, 2008 and will continue annual payments for 15 years until December 15, 2022. Funding for these payments will be guaranteed by net power revenues. Interest payments are not required, since the effective equivalent of interest on the bonds is paid in the form of federal tax credits in lieu of interest paid by the issuer.

(Dollars in thousands, unless otherwise stated)

The future annual debt service relating to the CREBs outstanding as of June 30, 2018 is as follows:

Fiscal years ending June 30:		Principal
2019	$	422
2020		422
2021		422
2022		422
2023		421
		2,109
Less: Current portion		(422)
Less: Unamortized bond discount		(62)
Long-term portion as of June 30, 2018	$	1,625

(b) *Qualified Energy Conservation Bonds*

In December 2011, Hetchy Power issued $8,291 of taxable QECBs. The QECBs were issued to fund certain qualified green components for the SFPUC's 525 Golden Gate Headquarters project. The QECBs were non-rated and privately placed with Banc of America Leasing. The net effective interest rate on the QECBs, after the federal tax subsidy, is 1.2% through 2028.

The future annual debt service relating to the QECBs outstanding as of June 30, 2018 is as follows:

Fiscal years ending June 30:		Principal	Interest before subsidy	Federal interest subsidy*	Interest net of subsidy
2019	$	529	245	(171)	74
2020		536	219	(154)	65
2021		542	194	(136)	58
2022		549	168	(118)	50
2023		555	142	(100)	42
2024-2028		2,583	309	(216)	93
		5,294	1,277	(895)	382
Less: Current portion		(529)			
Long-term portion as of June 30, 2018	$	4,765			

* The SFPUC received IRS notice dated June 21, 2018 that the federal interest subsidy is reduced by 6.2% or a total reduction of $59 due to sequestration over the remaining life of the bonds assuming the sequestration rate will remain the same.

(c) *New Clean Renewable Energy Bonds 2012*

In April 2012, Hetchy Power issued $6,600 of taxable NCREBs. The NCREBs were issued to fund certain qualified facilities that provide clean, renewable energy at Davies Symphony Hall, City Hall, and University Mound Reservoir. The NCREBs were non-rated and privately placed with Banc of America Leasing. The net effective interest rate on the NCREBs, after the federal tax subsidy, is 1.5% through 2021. $288 and $2,523 of principal was prepaid in fiscal year 2017 and 2016, respectively. There was no prepaid in fiscal year 2018.

(Dollars in thousands, unless otherwise stated)

The future annual debt service relating to the 2012 NCREBs outstanding as of June 30, 2018 is as follows:

Fiscal years ending June 30:		Principal	Interest before subsidy	Federal interest subsidy*	Interest net of subsidy
2019	$	570	54	(35)	19
2020		583	27	(18)	9
2021		130	3	(2)	1
		1,283	84	(55)	29
Less: Current portion		(570)			
Long-term portion as of June 30, 2018	$	713			

* The SFPUC received IRS notice dated June 21, 2018 that the federal interest subsidy is reduced by 6.2% or a total reduction of $4 due to sequestration over the remaining life of the bonds assuming the sequestration rate will remain the same.

(d) *New Clean Renewable Energy Bonds 2015*

In October 2015, Hetchy Power issued $4,100 of taxable 2015 NCREBs. The 2015 NCREBs were issued to fund certain qualified clean, renewable energy solar generation facilities at the Marina Middle School and the San Francisco Police Academy. The 2015 NCREBs were non-rated and privately placed with Banc of America Leasing. The net effective interest rate on the 2015 NCREBs, after the federal tax subsidy, is 1.4% through 2033.

The future annual debt service relating to the 2015 NCREBs outstanding as of June 30, 2018 is as follows:

Fiscal years ending June 30:		Principal	Interest before subsidy	Federal interest subsidy*	Interest net of subsidy
2019	$	229	166	(109)	57
2020		232	155	(102)	53
2021		235	145	(95)	50
2022		239	134	(88)	46
2023		242	123	(81)	42
2024-2028		1,262	442	(290)	152
2029-2033		1,212	141	(92)	49
		3,651	1,306	(857)	449
Less: Current portion		(229)			
Long-term portion as of June 30, 2018	$	3,422			

* The SFPUC received IRS notice dated June 21, 2018 that the federal interest subsidy is reduced by 6.2% or a total reduction of $57 due to sequestration over the remaining life of the bonds assuming the sequestration rate will remain the same.

(e) *Power Revenue Bonds 2015 Series A (Green) and Series B*

In May 2015, Hetchy Power issued tax-exempt revenue bonds, 2015 Series A (Green) in the amount of $32,025 with interest rates ranging from 4.0% to 5.0% and 2015 Series B in the amount of $7,530 with interest rates ranging from 3.0% to 4.0%. Proceeds from the bonds were used to finance reconstruction or replacement of existing facilities of the SFPUC's Hetch Hetchy project, to fund capitalized interest on the 2015 Series AB Bonds, to fund a debt service reserve account for the 2015 Series AB Bonds, and to pay costs of issuance of the 2015 Series AB bonds. The bonds were rated "A+" and "AA-" by S&P and Fitch, respectively. Final maturity for 2015 Series AB are November 1, 2045 and November 1, 2026, respectively. The true interest cost is 3.95%. As of June 30, 2018, the outstanding principal amount was $38,845.

(Dollars in thousands, unless otherwise stated)

The future annual debt service relating to the 2015 Series AB Bonds outstanding as of June 30, 2018 are as follows:

Hetchy Power - Power Revenue Bonds 2015 Series A (Green)

Fiscal years ending June 30:		Principal	Interest	Total
2019	$	—	1,593	1,593
2020		—	1,593	1,593
2021		—	1,593	1,593
2022		—	1,593	1,593
2023		—	1,593	1,593
2024-2028		1,850	7,889	9,739
2029-2033		5,930	6,831	12,761
2034-2038		7,565	5,153	12,718
2039-2043		9,650	3,011	12,661
2044-2046		7,030	539	7,569
		32,025	31,388	63,413
Add: Unamortized bond premium		3,695		
Long-term portion as of June 30, 2018	$	35,720		

Hetchy Power - Power Revenue Bonds 2015 Series B

Fiscal years ending June 30:		Principal	Interest	Total
2019	$	730	246	976
2020		755	220	975
2021		785	189	974
2022		815	157	972
2023		850	124	974
2024-2027		2,885	183	3,068
		6,820	1,119	7,939
Less: Current portion		(730)		
Add: Unamortized bond premium		426		
Long-term portion as of June 30, 2018	$	6,516		

(f) *Certificates of Participation Issued for the 525 Golden Gate Headquarters Building*

In October 2009, the City issued $167,670 in certificates of participation to fund construction of the headquarters of the SFPUC at 525 Golden Gate Avenue. The 2009 Series C certificates were issued for $38,120 and 2009 Series D for $129,550 as “Build America Bonds” (BABs) on a taxable basis under the 2009 American Recovery and Reinvestment Act. The 2009 Series C certificates carry interest rates ranging from 2.0% to 5.0% and mature on November 1, 2022. The 2009 Series D certificates carry interest rates ranging from 6.4% to 6.5% and mature on November 1, 2041. After adjusting Series D for the federal interest subsidy, the true interest cost averages 3.4% and 4.3% for Series C and Series D certificates, respectively.

Under the terms of a Memorandum of Understanding between the City and the SFPUC dated October 1, 2009, the City conveyed the real property to the Trustee, the Bank of New York Mellon Trust Company, N.A., which was replaced by U.S. Bank in March 2014 under a property lease in exchange for the proceeds of the sale of the certificates. The Trustee has leased the property back to the City for the City’s use under a project lease. The City is obligated under the project lease to pay base rental payments and other payments to the Trustee each year during the 32-year term of the project lease. The Commission makes annual base rental payments to the City for the building equal to annual debt service on the certificates. It is anticipated these lease costs will be offset with reductions in costs associated with current office rental expense. Hetchy Power’s share is reflected on the Hetchy Power fund statements.

(Dollars in thousands, unless otherwise stated)

The Power, Water, and Wastewater Enterprises have ownership interest in the building equal to their projected usage of space as follows: Water (73%), Wastewater (15%), and Power (12%). Similarly, each Enterprise is responsible for a portion of the annual base rental payment based on their ownership percentages less contributed equity. The percentage share of base rental payments for the Enterprises is as follows: Water (71.4%), Wastewater (18.9%), and Power (9.7%).

The future annual debt service relating to the certificates of participation 2009 Series C outstanding as of June 30, 2018 is as follow:

Fiscal years ending June 30:	Principal	Interest	Total
2019	$ 348	88	436
2020	366	70	436
2021	384	51	435
2022	405	31	436
2023	425	10	435
	1,928	250	2,178
Less: Current portion	(348)		
Add: Unamortized bond premium	60		
Long-term portion as of June 30, 2018	$ 1,640		

The following table presents the future annual debt service relating to the certificates of participation 2009 Series D outstanding as of June 30, 2018. The federal interest subsidy represents 35% of the interest, excluding sequestration:

Fiscal years ending June 30:	Principal	Interest before subsidy	Federal interest subsidy*	Interest net of subsidy
2019	$ —	812	(267)	545
2020	—	812	(267)	545
2021	—	812	(267)	545
2022	—	812	(267)	545
2023	—	812	(267)	545
2024-2028	2,418	3,690	(1,212)	2,478
2029-2033	2,972	2,833	(930)	1,903
2034-2038	3,665	1,762	(578)	1,184
2039-2042	3,538	473	(153)	320
Total		12,818	(4,208)	8,610
Long-term portion as of June 30, 2018	$ 12,593			

* The SFPUC received IRS notice dated June 21, 2018 that the federal interest subsidy is reduced by 6.2% or a total reduction of $278 due to sequestration over the remaining life of the bonds assuming the sequestration rate will remain the same.

(8) Revenue Pledge

Hetchy Power has pledged future power revenues to repay the 2008 CREBs, the 2011 QECBs, the 2012 NCREBs, and the 2015 NCREBs. Additionally, Hetchy Power has pledged future power revenues for 2015 Series AB power revenue bonds. Proceeds from the bonds provided financing for various capital construction and facility energy efficiency projects. The Series 2015 AB power revenue bonds are payable through fiscal year 2046 and are solely payable from net revenues of Hetchy Power on a senior lien basis to the 2008 CREBs, the 2011 QECBs, the 2012 NCREBs, and the 2015 NCREBs.

(Dollars in thousands, unless otherwise stated)

The original amount of bonds issued, total principal and interest remaining, principal and interest paid during fiscal years 2018 and 2017, applicable net revenues, and funds available for debt service are as follows:

Hetchy Power		2018	2017
Bonds issued with revenue pledge	$	64,871	64,871
Principal and interest remaining due at the end of the year		86,356	91,177
Principal and interest paid during the year*		4,824	2,293
Net revenues for the year ended June 30		30,687	31,229
Funds available for debt service		67,212	63,428

*Per Indenture, debt service for coverage is calculated using the amount of principal and interest paid during the year for the 2015 series AB power revenue bonds, which has a senior lien on power enterprise revenues; principal and interest paid during the year for the 2015 Series AB power revenue bonds was $2,570.

(9) Other Non-Operating Revenues – Trans Bay Cable Construction and Licensing Fees

In 2007, the Board of Supervisors adopted the resolution to enter into two non-exclusive licenses with the Trans Bay Cable LLC (the Licensee) for the Trans Bay Cable Project. The Licensee proposed to install, operate, and maintain approximately 53 miles of high-voltage direct current transmission cable running from the City of Pittsburg to the City. The first license is a Construction License to install a 400 MW high-voltage transmission line, with a four-year term. The Licensee has paid Hetchy Power $3,500 in Renewable Energy, Transmission and Grid Reliability to use the payments for study and development of two City-owned transmission projects, a Newark-San Francisco project, and a Potrero-Embarcadero project. Of the $3,500, only $1,904 has been spent to date. For fiscal years ended June 30, 2018 and 2017, expenses were $2 and $621, respectively.

The second license is an operational license for operation of the transmission line with 25-year term and an option to renew for 10 years. The Licensee agrees to pay Hetchy Power in excess of $20,000 in 10 separate installments of $2,000 annually with adjustments for inflation, as the “San Francisco Electric Reliability Payment” to implement, advance, promote, or enhance policies and projects consistent with City Energy Policies. The project came on line November 29, 2010, and Hetchy Power received the first installment of $2,000. As of June 30, 2018, cumulative revenues to date of $17,612 were recorded, with $2,434 and $2,348 recorded in fiscal years 2018 and 2017, respectively. Per agreement, the SFPUC shall consult with Departments of Environment and Public Health, as well as community members, including the Power Plant Task Force, in developing its proposals to the Board of Supervisors on how to spend the San Francisco Electricity Reliability Payment, and shall consider specifically renewable energy, conservation, and environmental health programs, which benefit low-income, at-risk, and environmentally disadvantaged communities. The San Francisco Electricity Reliability Payment shall also be partly used for green jobs training and placement programs, which benefit low-income, at-risk, and environmentally disadvantaged communities. As of June 30, 2018, cumulative expenses of $5,778 have been incurred, with $648 and $611 in fiscal years 2018 and 2017, respectively.

(10) Employee Benefits

(a) *Pension Plan*

Hetch Hetchy participates in a cost-sharing multiple-employer defined benefit pension plan (the Plan). The Plan is administered by the San Francisco City and County Employees’ Retirement System (SFERS). For purposes of measuring the net pension liability, deferred outflows/inflows of resources related to pensions, pension expense, information about the fiduciary net position of the SFERS plans, and additions to/deductions from the Plan's fiduciary net position have been determined on the same basis as they are reported by Cheiron, the consulting actuary for the Plan. Benefit payments (including refunds of employee contributions) are recognized when currently due and payable in accordance with the benefit terms. Investments are reported at fair value.

(Dollars in thousands, unless otherwise stated)

GASB Statement No. 68 requires that the reported results must pertain to liability and asset information within certain defined timeframes. For this report, the following timeframes are used:

San Francisco Employees's Retirement System - Cost Sharing

Fiscal year 2018	
Valuation Date (VD)	June 30, 2016 updated to June 30, 2017
Measurement Date (MD)	June 30, 2017
Measurement Period (MP)	July 1, 2016 to June 30, 2017

Fiscal year 2017	
Valuation Date (VD)	June 30, 2015 updated to June 30, 2016
Measurement Date (MD)	June 30, 2016
Measurement Period (MP)	July 1, 2015 to June 30, 2016

The City is an employer of the plan with a proportionate share of 94.07% as of June 30, 2017 (measurement date), and 94.22% as of June 30, 2016 (measurement date). Hetch Hetchy's allocation percentage was determined based on its employer contributions divided by the City's total employer contributions for fiscal years 2017 and 2016. Hetch Hetchy's net pension liability, deferred outflows/inflows of resources related to pensions, amortization of deferred outflows/inflows and pension expense to each department is based on its allocated percentage. Hetchy Water's and Hetchy Power's allocation of the City's proportionate share was 1.19% as of the June 30, 2017 and 1.27% as of June 30, 2016 (measurement date). CleanPowerSF's allocation of the City's proportionate share was 0.02% as of the June 30, 2017 and 0% as of June 30, 2016 (measurement date).

Plan Description – The Plan provides basic service retirement, disability, and death benefits based on specified percentages of defined final average monthly salary and provides annual cost-of-living adjustments (COLA) after retirement. The Plan also provides pension continuation benefits to qualified survivors. The City Charter and the Administrative Code are the authorities which establish and amend the benefit provisions and employer obligations of the Plan. The Retirement System issues a publicly available financial report that includes financial statements and required supplementary information for the Plan. That report may be obtained by writing to the San Francisco Employees' Retirement System, 1145 Market Street, 5th Floor, San Francisco, CA 94103 or by calling (415) 487-7000.

Benefits – The Retirement System provides service retirement, disability and death benefits based on specified percentages of defined final average monthly salary and annual COLA after retirement. Benefits and refunds are recognized when due and payable in accordance with the terms of the Plan. The Retirement System pays benefits according to the category of employment and the type of benefit coverage provided by the City.

The four main categories of Plan members are:

a) Miscellaneous Non-Safety Members – staff, operational, supervisory, and all other eligible employees who are not in special membership categories.

b) Sheriff's Department and Miscellaneous Safety members – sheriffs assuming office on and after January 7, 2012, and undersheriffs, deputized personnel of the Sheriff's department, and miscellaneous safety employees hired on and after January 7, 2012.
c) Firefighter Members – firefighters and other employees whose principal duties are in fire prevention and suppression work or who occupy positions designated by law as firefighter member positions.
d) Police Members – police officers and other employees whose principal duties are in active law enforcement or who occupy positions designated by law as police member positions.

The membership groups and the related service retirement benefits are included in the Notes to the Basic Financial Statements of San Francisco Employees' Retirement System.

All members are eligible to apply for a disability retirement benefit, regardless of age, when they have 10 or more years of credited service and they sustain an injury or illness that prevents them from performing their duties. Safety members are eligible to apply for an industrial disability retirement benefit from their first day on the job if their disability is caused by an illness or injury that they receive while performing their duties.

All retired members receive a benefit adjustment each July 1, which is the Basic COLA. The majority of adjustments are determined by changes in Consumer Price Index with increases capped at 2%. The Plan provides for a Supplemental COLA in years when there are sufficient "excess" investment earnings in the Plan. The maximum benefit adjustment each July 1 is 3.5% including the Basic COLA. Effective July 1, 2012, voters approved changes in the criteria for payment of the Supplemental COLA benefit, so that Supplemental COLAs would only be paid when the Plan is also fully funded on a market value of assets basis. Certain provisions of this voter-approved proposition were challenged in the Courts. A decision by the California Courts modified the interpretation of the proposition. Effective July 1, 2012, members who retired before November 6, 1996 will receive a Supplemental COLA only when the Plan is also fully funded on a market value of assets basis. However, the "full funding" requirement does not apply to members who retired on or after November 6, 1996 and were hired before January 7, 2012. For all members hired before January 7, 2012, all Supplemental COLAs paid to them in retirement benefits will continue into the future even where an additional Supplemental COLA is not payable in any given year. For members hired on and after January 7, 2012, a Supplemental COLA will only be paid to retirees when the Plan is fully funded on a market value of asset basis and in addition for these members, Supplemental COLAs will not be permanent adjustments to retirement benefits. That is, in years when a Supplemental COLA is not paid, all previously paid Supplemental COLAs will expire.

Funding and Contribution Policy – Contributions are made to the basic plan by both the City and the participating employees. Employee contributions are mandatory as required by the Charter. Employee contribution rates for fiscal year 2018 varied from 7.5% to 13.0% as a percentage of gross covered salary and from 7.5% to 12.0% as a percentage of gross covered salary for fiscal year 2017. Most employee groups agreed through collective bargaining for employees to contribute the full amount of the employee contributions on a pretax basis. The City is required to contribute at an actuarially determined rate. Based on the July 1, 2016 actuarial valuation report, the required employer contribution rate for fiscal year 2018 was 18.96% to 23.46%. Based on the July 1, 2015 actuarial report, the required employer contribution rate for fiscal year 2017 was 17.90% to 21.40%.

Employer contributions and employee contributions made by the employer to the Plan are recognized when due and the employer has made a formal commitment to provide the contributions. The City's proportionate share of employer contributions recognized by the Retirement System in fiscal years ended June 30, 2017 and 2016 (measurement periods) were $519,073 and $496,343, respectively. Hetchy Water's allocation of employer contributions were $2,961 and $2,806 or 45%, and Hetchy Power's allocation of employer contributions were $3,618 and $3,430 or 55%, respectively, for fiscal years 2017 and 2016 (measurement periods). CleanPowerSF had no allocation of employer contribution for fiscal years 2017 and 2016 (measurement periods).

Pension Liabilities, Pension Expenses, and Deferred Outflows and Inflows of Resources Related to Pensions

Fiscal Year 2018

As of June 30, 2018, the City reported net pension liabilities for its proportionate share of the pension liability of the Plan of $4,697,129. The City's net pension liability for the Plan is measured as the proportionate share of the net pension liability. The net pension liability of the Plan is measured as of June 30, 2017 (measurement date), and the total pension liability for the Plan used to calculate the net pension liability was determined by an actuarial valuation as of June 30, 2016 rolled forward to June 30, 2017 using standard update procedures. The City's proportion of the net pension liability was based on a projection of the City's long-term share of contributions to the pension plan relative to the projected contributions of all participating employers, actuarially determined. Hetch Hetchy's allocation of the City's proportionate share of the net pension liability for the Plan as of June 30, 2018 and 2017 (reporting year) was $57,122 and $69,412 respectively. Hetchy Water's allocation of the City's proportionate share of the net pension liability for the Plan as of June 30, 2018 and 2017 (reporting year) was $25,216 and $31,235, respectively or 45% and Hetchy Power's allocation was $30,819 and $38,177, respectively, or 55% of the total. CleanPowerSF's allocation of the City's proportionate share of the net pension liability for the Plan as of June 30, 2018 and 2017 (reporting year) was $1,087 and $0 respectively. During the measurement year 2017, the actual investment earnings decreased total pension liability. This was partially offset by an increase in service costs and interest costs, resulting in an overall decrease in net pension liability.

For the years ended June 30, 2018, the City's recognized pension expense was $732,895 including amortization of deferred outflow/inflow related pension items. Hetchy Water's and Hetchy Power's allocation of pension expense including amortization of deferred outflow/inflow related pension items were $6,144 for fiscal year 2018. CleanPowerSF's allocation of pension expense including amortization of deferred outflow/inflow related pension items were $978 for fiscal year 2018. Pension expense decreased from the prior year, largely due to the impact of actual investment earnings.

(Dollars in thousands, unless otherwise stated)

At June 30, 2018, Hetch Hetchy's reported deferred outflows of resources and deferred inflows of resources related to pensions were the following:

	Schedules of Deferred Outflows and Inflows of Resources							
	Deferred Outflows of Resources				Deferred Inflows of Resources			
Fiscal Year 2018	Hetchy Water	Hetchy Power	CleanPowerSF	Total	Hetchy Water	Hetchy Power	CleanPowerSF	Total
Pension contribution subsequent to the measurement date	$ 3,127	3,823	135	7,085	–	–	–	–
Differences between expected and actual experience	234	286	10	530	761	931	33	1,725
Changes in assumptions	4,089	4,997	176	9,262	74	91	3	168
Net difference between projected and actual earnings on pension plan investments	–	–	–	–	942	1,149	41	2,132
Change in employer's proportion	38	46	2	86	41	51	2	94
Total	$ 7,488	9,152	323	16,963	1,818	2,222	79	4,119

Amounts reported as deferred outflows, exclusive of contributions made after the measurement date, and deferred inflows of resources will be amortized annually and recognized in pension expense as follows:

	Deferred Outflows/(Inflows) of Resources			
Fiscal years	Hetchy Water	Hetchy Power	CleanPowerSF	Total
2019	$ 117	143	5	265
2020	2,120	2,590	91	4,801
2021	1,346	1,645	58	3,049
2022	(1,040)	(1,271)	(45)	(2,356)
	$ 2,543	3,107	109	5,759

Fiscal Year 2017

As of June 30, 2017, the City reported net pension liabilities for its proportionate share of the pension liability of the Plan of $5,476,653. The City's net pension liability for the Plan is measured as the proportionate share of the net pension liability. The net pension liability of the Plan is measured as of June 30, 2016 (measurement date), and the total pension liability for the Plan used to calculate the net pension liability was determined by an actuarial valuation as of June 30, 2015 rolled forward to June 30, 2016 using standard update procedures. The City's proportion of the net pension liability was based on a projection of the City's long-term share of contributions to the pension plan relative to the projected contributions of all participating employers, actuarially determined. Hetch Hetchy's allocation of the City's proportionate share of the net pension liability for each Plan as of June 30, 2017 and 2016 (reporting year) was $69,412 and $26,874 respectively. Hetchy Water's allocation of the City's proportionate share of the net pension liability for each Plan as of June 30, 2017 and 2016 (reporting year) was $31,235 and $12,093, respectively or 45% and Hetchy Power's allocation was $38,177 and $14,781, respectively, or 55% of the total. During the measurement year 2016, the increase in service costs, interest costs, change in benefits, change in assumptions, and difference between projected and actual investment earnings increased total pension liability. This was only partially offset by an increase in the discount rate, contributions, investment income, and actuarial experience gains, resulting in an overall increase in net pension liability.

(Dollars in thousands, unless otherwise stated)

For the years ended June 30, 2017, the City's recognized pension expense was $1,808,992 including amortization of deferred outflow/inflow related pension items. Hetch Hetchy's allocation of pension expense including amortization of deferred outflow/inflow related pension items were $23,605 for fiscal year 2017. Pension expense increased significantly, largely due to the impact of changes in benefits, namely the updated Supplemental COLA assumptions and amortization of deferred inflows/outflows.

At June 30, 2017, Hetch Hetchy's reported deferred outflows of resources and deferred inflows of resources related to pensions were the following:

		Schedules of Deferred Outflows and Inflows of Resources					
		Deferred Outflows of Resources			Deferred Inflows of Resources		
Fiscal Year 2017		Hetchy Water	Hetchy Power	Total	Hetchy Water	Hetchy Power	Total
Pension contribution subsequent to the measurement date	$	2,961	3,618	6,579	–	–	–
Differences between expected and actual experience		–	–	–	1,152	1,406	2,558
Changes in assumptions		5,373	6,568	11,941	157	193	350
Net difference between projected and actual earnings on pension plan investments		4,270	5,220	9,490	–	–	–
Change in employer's proportion		55	67	122	29	36	65
Total	$	**12,659**	**15,473**	**28,132**	**1,338**	**1,635**	**2,973**

Amounts reported as deferred outflows, exclusive of contributions made after the measurement date, and deferred inflows of resources will be amortized annually and recognized in pension expense as follows:

Deferred Outflows/(Inflows) of Resources				
Fiscal years		Hetchy Water	Hetchy Power	Total
2018	$	1,230	1,505	2,735
2019		1,230	1,505	2,735
2020		3,361	4,108	7,469
2021		2,539	3,102	5,641
	$	8,360	10,220	18,580

Actuarial Assumptions

Fiscal Year 2018

A summary of the actuarial assumptions and methods used to calculate the Total Pension Liability as of June 30, 2017 (measurement period) is provided below, including any assumptions that differ from those used in the July 1, 2016 actuarial valuation. Refer to the July 1, 2016 actuarial valuation report for a complete description of all other assumptions, which can be found on the Retirement System's website http://mysfers.org.

(Dollars in thousands, unless otherwise stated)

Key Actuarial Assumptions

Valuation Date	June 30, 2016 updated to June 30, 2017
Measurement Date	June 30, 2017
Actuarial Cost Method	Entry-Age Normal Cost
Expected Rate of Return	7.50%
Municipal Bond Yield	2.85% as of June 30, 2016
	3.58% as of June 30, 2017
	Bond Buyer 20-Bond GO Index, June 30, 2016 and June 29, 2017
Inflation	3.25%
Salary Increases	3.75% plus merit component based on employee classification and years of service
Discount Rate	7.50% as of June 30, 2016
	7.50% as of June 30, 2017
Administrative Expenses	0.60% of payroll as of June 30, 2016
	0.60% of payroll as of June 30, 2017

Basic COLA	Old Miscellaneous and All New Plans	Old Police & Fire, pre 7/1/75	Old Police & Fire, Charters A8.595 and A8.596	Old Police & Fire, Charters A8.559 and A8.585
June 30, 2016	2.00%	2.70%	3.30%	4.40%
June 30, 2017	2.00%	2.70%	3.30%	4.40%

Mortality rates for active members and healthy annuitants were based upon adjusted Employee and Healthy Annuitant CalPERS mortality tables projected generationally from the 2009 base year using a modified version of the MP-2015 projection scale.

Fiscal Year 2017

A summary of the actuarial assumptions and methods used to calculate the Total Pension Liability as of June 30, 2016 (measurement period) is provided below, including any assumptions that differ from those used in the July 1, 2015 actuarial valuation. Refer to the July 1, 2015 actuarial valuation report for a complete description of all other assumptions, which can be found on the Retirement System's website http://mysfers.org.

Key Actuarial Assumptions

Valuation Date	June 30, 2015 updated to June 30, 2016
Measurement Date	June 30, 2016
Actuarial Cost Method	Entry-Age Normal Cost
Expected Rate of Return	7.50%
Municipal Bond Yield	3.85% as of June 30, 2015
	2.85% as of June 30, 2016
	Bond Buyer 20-Bond GO Index, July 2, 2015 and June 30, 2016
Inflation	3.25%
Salary Increase	3.75% plus merit component based on employee classification and years of service
Discount Rate	7.46% as of June 30, 2015
	7.50% as of June 30, 2016
Administrative Expenses	0.45% of payroll as of June 30, 2015
	0.60% of payroll as of June 30, 2016

		Old Miscellaneous and all New Plans	Old Police & Fire, pre 7/1/75	Old Police & Fire, Charters A8.595 and A8.596	Old Police & Fire, Charters A8.559 and A8.585
Basic COLA	June 30, 2015	2.00%	3.00%	4.00%	5.00%
	June 30, 2016	2.00%	2.70%	3.30%	4.40%

Mortality rates for active members and healthy annuitants were based upon adjusted Employee and Healthy Annuitant CalPERS mortality tables projected generationally from the 2009 base year using a modified version of the MP-2015 projection scale.

Discount Rate

Fiscal Year 2018

The beginning and end of year measurements are based on different assumptions and contribution methods that result in different discount rates. The discount rate was 7.50% as of June 30, 2017 (measurement date) and June 30, 2016 (measurement date), respectively.

The discount rate used to measure the Total Pension Liability as of the June 30, 2017 measurement date was 7.50%. The projection of cash flows used to determine the discount rate assumed that plan member contributions will continue to be made at the rates specified in the Charter. Employer contributions were assumed to be made in accordance with the contribution policy in effect for July 1, 2016 actuarial valuation. That policy includes contributions equal to the employer portion of the Entry Age normal costs for members as of the valuation date, a payment for the expected administrative expenses, and an amortization payment on the unfunded actuarial liability.

The amortization payment is based on closed periods that vary in length depending on the source. Charter amendments prior to July 1, 2014 are amortized over 20 years. After July 1, 2014, any Charter changes to active member benefits are amortized over 15 years and changes to inactive member benefits, including Supplemental COLAs, are amortized over 5 years. The remaining Unfunded Actuarial Liability not attributable to Charter amendments as of July 1, 2013 is amortized over a 19-year period commencing July 1, 2014. Experience gains and losses and assumption or method changes on or after July 1, 2014 are amortized over 20 years. For the July 1, 2016 valuation, the increase in the Unfunded Actuarial Liability attributable to the Supplemental COLAs granted on July 1, 2013 and July 1, 2014 are amortized over 17-years and 5-years respectively. All amortization schedules are established as a level percentage of payroll, so payments increase 3.75% each year. The Unfunded Actuarial Liability is based on an Actuarial Value of Assets that smooths investment gains and losses over five years and a measurement of the Actuarial Liability that excludes the value of any future Supplemental COLAs.

While the contributions and measure of Actuarial Liability in the valuation do not anticipate any future Supplemental COLAs, the projected contributions for the determination of the discount rate include the anticipated future amortization payments on future Supplemental COLAs for current members when they are expected to be granted. For members who worked after November 6, 1996 and before Proposition C passed, a Supplemental COLA is granted if the actual investment earnings during the year exceed the expected investment earnings on the Actuarial Value of Assets. For members who did not work after November 6, 1996 and before Proposition C passed, the Market Value of Assets must also exceed the actuarial liability at the beginning of the year for a Supplemental COLA to be granted. When a Supplemental COLA is granted, the amount depends on the amount of excess earnings and the basic COLA amount for each membership group. The large majority of members receive a 1.50% Supplemental COLA when granted.

Because the probability of a Supplemental COLA depends on the current funded level of the System for certain members, Cheiron developed an assumption as of the June 30, 2017 measurement date for the probability and amount of Supplemental COLA for each future year.

(Dollars in thousands, unless otherwise stated)

The table below shows the net assumed Supplemental COLA for members with a 2.00% Basic COLA for sample years.

Assumed Supplemental COLA for Members with a 2.00% Basic COLA

Fiscal years	96 - Prop C	Before 11/6/96 or After Prop C
2018	0.750 %	0.000 %
2023	0.750	0.290
2028	0.750	0.350
2033	0.750	0.380
2038+	0.750	0.380

The projection of benefit payments to current members for determining the discount rate includes the payment of anticipated future Supplemental COLAs.

Based on these assumptions, the System's fiduciary net position was projected to be available to make projected future benefit payments for current members until fiscal year end 2096 when only a portion of the projected benefit payments can be made from the projected fiduciary net position. Projected benefit payments are discounted at the long-term expected return on assets of 7.50% to the extent the fiduciary net position is available to make the payments and at the municipal bond rate of 3.58% to the extent they are not available. The single equivalent rate used to determine the Total Pension Liability as of June 30, 2017 is 7.50%.

The long-term expected rate of return on pension plan investments was 7.50%. It was set by the Retirement Board after consideration of both expected future returns and historical returns experienced by the Retirement System. Expected future returns were determined by using a building-block method in which best-estimate ranges of expected future real rates of return were developed for each major asset class. These ranges were 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 and by adding expected inflation.

Target allocation and best estimates of geometric long-term expected real rates of return (net of pension plan investment expense and inflation) for each major asset class are summarized in the following table:

Long- Term Expected Real Rates of Return

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Global Equity	40.0 %	5.3 %
Fixed Income	20.0	1.6
Private Equity	18.0	6.5
Real Assets	17.0	4.6
Hedge Funds/Absolute Returns	5.0	3.6
Total	100.0	

Fiscal Year 2017

The beginning and end of year measurements are based on different assumptions and contribution methods that result in different discount rates. The discount rate was 7.50% as of June 30, 2016 (measurement date) and 7.46% as of June 30, 2015 (measurement date).

(Dollars in thousands, unless otherwise stated)

The discount rate used to measure the Total Pension Liability as of the June 30, 2016 measurement date was 7.50%. The projection of cash flows used to determine the discount rate assumed that plan member contributions will continue to be made at the rates specified in the Charter. Employer contributions were assumed to be made in accordance with the contribution policy in effect for July 1, 2015 actuarial valuation. That policy includes contributions equal to the employer portion of the Entry Age normal costs for members as of the valuation date, a payment for the expected administrative expenses, and an amortization payment on the unfunded actuarial liability.

The amortization payment is based on closed periods that vary in length depending on the source. Charter amendments prior to July 1, 2014 are amortized over 20 years. After July 1, 2014, any Charter changes to active member benefits are amortized over 15 years and changes to inactive member benefits, including Supplemental COLAs, are amortized over 5 years. The remaining Unfunded Actuarial Liability not attributable to Charter amendments as of July 1, 2013 is amortized over a 19-year period commencing July 1, 2014. Experience gains and losses and assumption or method changes on or after July 1, 2014 are amortized over 20 years. For the July 1, 2016 valuation, the increase in the Unfunded Actuarial Liability attributable to the Supplemental COLAs granted on July 1, 2013 and July 1, 2014 are amortized over 17-years and 5-years respectively. All amortization schedules are established as a level percentage of payroll, so payments increase 3.75% each year. The Unfunded Actuarial Liability is based on an Actuarial Value of Assets that smooths investment gains and losses over five years and a measurement of the Actuarial Liability that excludes the value of any future Supplemental COLAs.

While the contributions and measure of Actuarial Liability in the valuation do not anticipate any future Supplemental COLAs, the projected contributions for the determination of the discount rate include the anticipated future amortization payments on future Supplemental COLAs for current members when they are expected to be granted. For members who worked after November 6, 1996 and before Proposition C passed, a Supplemental COLA is granted if the actual investment earnings during the year exceed the expected investment earnings on the Actuarial Value of Assets. For members who did not work after November 6, 1996 and before Proposition C passed, the Market Value of Assets must also exceed the actuarial liability at the beginning of the year for a Supplemental COLA to be granted. When a Supplemental COLA is granted, the amount depends on the amount of excess earnings and the basic COLA amount for each membership group. The large majority of members receive a 1.50% Supplemental COLA when granted.

Because the probability of a Supplemental COLA depends on the current funded level of the System for certain members, Cheiron developed an assumption as of the June 30, 2016 measurement date for the probability and amount of Supplemental COLA for each future year. The table below shows the net assumed Supplemental COLA for members with a 2.00% Basic COLA for sample years.

Assumed Supplemental COLA for Members with a 2.00% Basic COLA

Fiscal years	96 - Prop C	Before 11/6/96 or After Prop C
2018	0.750 %	0.000 %
2023	0.750	0.220
2028	0.750	0.322
2033	0.750	0.370
2038+	0.750	0.375

 (Continued)

(Dollars in thousands, unless otherwise stated)

The projection of benefit payments to current members for determining the discount rate includes the payment of anticipated future Supplemental COLAs.

Based on these assumptions, the System's fiduciary net position was projected to be available to make projected future benefit payments for current members until fiscal year end 2093 when only a portion of the projected benefit payments can be made from the projected fiduciary net position. Projected benefit payments are discounted at the long-term expected return on assets of 7.50% to the extent the fiduciary net position is available to make the payments and at the municipal bond rate of 2.85% to the extent they are not available. The single equivalent rate used to determine the Total Pension Liability as of June 30, 2016 is 7.50%.

The long-term expected rate of return on pension plan investments was 7.50%. It was set by the Retirement Board after consideration of both expected future returns and historical returns experienced by the Retirement System. Expected future returns were determined by using a building-block method in which best-estimate ranges of expected future real rates of return were developed for each major asset class. These ranges were 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 and by adding expected inflation.

Target allocation and best estimates of geometric long-term expected real rates of return (net of pension plan investment expense and inflation) for each major asset class are summarized in the following table:

Long- Term Expected Real Rates of Return

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return
Global Equity	40.0 %	5.1 %
Fixed Income	20.0	1.1
Private Equity	18.0	6.3
Real Assets	17.0	4.3
Hedge Funds/Absolute Returns	5.0	3.3
Total	100.0	

Sensitivity of Proportionate Share of the Net Pension Liability to Changes in the Discount Rate

The following presents Hetch Hetchy's allocation of the employer's proportionate share of the net pension liability for the Plan, calculated using the discount rate, as well as what Hetch Hetchy's allocation of the employer's proportionate share of the net pension liability would be if it were calculated using a discount rate that is 1% lower or 1% higher than the current rate:

Fiscal Year 2018		Hetchy Water	Hetchy Power	CleanPowerSF	Total
1% Decrease Share of NPL @ 6.50%	$	43,199	52,798	1,862	97,859
Share of NPL @ 7.50%		25,216	30,819	1,087	57,122
1% Increase Share of NPL @ 8.50%		10,336	12,633	445	23,414

Fiscal Year 2017		Hetchy Water	Hetchy Power	CleanPowerSF	Total
1% Decrease Share of NPL @ 6.50%	$	49,499	60,498	—	109,997
Share of NPL @ 7.50%		31,235	38,177	—	69,412
1% Increase Share of NPL @ 8.50%		16,130	19,714	—	35,844

(Dollars in thousands, unless otherwise stated)

(b) *Other Post-employment Benefits*

Hetch Hetchy participates in the City's agent multiple employer defined benefit plan, which operates as a cost-sharing multiple employer defined benefit plan (the Plan). The Plan is maintained by the City and is administered through the City's Health Service System and provides post-employment medical, dental and vision insurance benefits to eligible employees, retired employees, and surviving spouses. Health benefit provisions are established and may be amended through negotiations between the City and the respective bargaining units. The City does not issue a separate report on its other post-employment benefit plan.

GASB Statement No. 75 requires that reported results must pertain to liability and asset information within certain defined timeframes. For this report, the following timeframes are used.

San Francisco Health Service System Retiree Plan	
Valuation Date (VD)	June 30, 2016 updated to June 30, 2017
Measurement Date (MD)	June 30, 2017
Measurement Period (MP)	July 1, 2016 to June 30, 2017

Hetch Hetchy's proportionate share percentage of the Plan was determined based on its percentage of citywide "pay-as-you-go" contributions for the year ended June 30, 2017. Hetch Hetchy's net OPEB liability, deferred outflows/inflows of resources related to OPEB, amortization of deferred outflows/inflows and OPEB expense to each department is based on its allocated percentage. Hetchy Water's and Hetchy Power's proportionate share of the City's OPEB elements was 0.95% as of June 30, 2017 (measurement date). CleanPowerSF's proportionate share of the City's OPEB elements was 0.02% as of June 30, 2017 (measurement date).

Benefits

Permanent full-time and elected employees are eligible to retire and receive postretirement health insurance benefits when they are eligible for retirement benefits from the City and County of San Francisco's Retirement System. The eligibility requirements are as follows:

Normal Retirement	Miscellaneous	Age 50 with 20 years of credited service[1] Age 60 with 10 years of credited service
	Safety	Age 50 with 5 years of credited service
Disabled Retirement[2]		Any age with 10 years of credited service
Terminated Vested[3]		Age 50 with 5 years of credited service at separation
Active Death[2]		Any age with 10 years of credited service

[1] Age 53 with 20 years of credited service, age 60 with 10 years of credited service, or age 60 for Miscellaneous members hired on or after January 7, 2012.

[2] No service requirement for Safety members retiring under the industrial disability benefit or for surviving spouses/domestic partners of those killed in the line of duty.

[3] Effective with Proposition B, passed June 3, 2008, participants hired on or after January 10, 2009 must retire within 180 days of separation in order to be eligible for retiree healthcare benefits.

Retiree healthcare benefits are administered by the San Francisco Health Service System and include the following:

Medical:	PPO – City Health Plan (self-insured) HMO – Kaiser (fully-insured) and Blue Shield (flex-funded)
Dental:	Delta Dental and DeltaCare USA
Vision:	Vision benefits are provided under the medical insurance plans and are administered by Vision Service Plan.

Projections of the sharing of benefit related costs are based on an established pattern of practice.

Contributions

Benefits provided under the Plan are currently paid through "pay-as-you-go" funding. Additionally, under the City Charter, active officers and employees of the City who commenced employment on or after January 10, 2009, shall contribute to the Retiree Health Care Trust Fund (Trust Fund) a percentage of compensation not to exceed 2% of pre-tax compensation. The City shall contribute 1% of compensation for officers and employees who commenced employment on or after January 10, 2009 until the City's GASB Actuary has determined that the City's portion of the Trust Fund is fully funded. At that time, the City's 1% contribution shall cease, and officers and employees will each contribute 50% of the maximum 2% of pre-tax compensation.

Starting July 1, 2016, active officers and employees of the City who commenced employment on or before January 9, 2009, shall contribute 0.25% of pre-tax compensation into the Trust Fund. Beginning on July 1st of each subsequent year, the active officers and employees of the City who commenced employment on or before January 9, 2009, shall contribute an additional 0.25% of pre-tax compensation up to a maximum of 1%. Starting July 1, 2016, the City shall contribute 0.25% of compensation into the Trust Fund for each officer and employee who commenced employment on or before January 9, 2009. Beginning on July 1st of each subsequent year, the City shall contribute an additional 0.25% of compensation, up to a maximum of 1% for each officer and employee who commenced employment on or before January 9, 2009. When the City's GASB Actuary has determined that the City's portion of the Trust Fund is fully funded, the City's 1% contribution shall cease, and officers and employees will each contribute 50% of the maximum 1% of pre-tax compensation.

Additional or existing contribution requirements may be established or modified by amendment to the City's Charter.

For the fiscal year ended June 30, 2018, the City's funding was based on "pay-as-you-go" plus a contribution of $25,839 to the Retiree Healthcare Trust Fund. The "pay-as-you-go" portion paid by the City was $178,019 for a total contribution of $203,858 for the fiscal year ended June 30, 2018. Hetch Hetchy's proportionate share of the City's contributions for fiscal year 2018 were $1,974: $870 for Hetchy Water, $1,064 for Hetchy Power, and $40 for CleanPowerSF.

OPEB Liabilities, OPEB Expenses and Deferred Outflows/Inflows of Resources Related to OPEB

As of June 30, 2018, the City reported net OPEB liabilities related to the Plan of $3,717,207. Hetch Hetchy's proportionate share of the City net OPEB liability as of June 30, 2018 was $36,000: $15,872 for Hetchy Water, $19,400 for Hetchy Power, and $728 for CleanPowerSF.

For the year ended June 30, 2018, the City's recognized OPEB expense was $355,186. Amortization of the City's deferred inflow is included as a component of pension expense. Hetch Hetchy's proportionate share of the City's OPEB expense was $3,439: $1,516 for Hetchy Water, $1,854 for Hetchy Power, and $69 for CleanPowerSF.

(Dollars in thousands, unless otherwise stated)

As of June 30, 2018, Hetch Hetchy's reported its proportionate share of the City's deferred outflows/inflows of resources related to OPEB from the following sources:

Schedules of Deferred Outflows and Inflows of Resources									
		Deferred Outflows of Resources				Deferred Inflows of Resources			
Fiscal Year 2018		Hetchy Water	Hetchy Power	CleanPowerSF	Total	Hetchy Water	Hetchy Power	CleanPowerSF	Total
Contributions subsequent to measurement date	$	870	1,064	40	1,974	–	–	–	–
Net difference between projected and actual earnings on pension plan investments		–	–	–	–	– 26	– 31	1	58
Total	$	**870**	**1,064**	**40**	**1,974**	**26**	**31**	**1**	**58**

Amounts reported as deferred outflows, exclusive of contributions made after the measurement date, and deferred inflows of resources will be amortized annually and recognized in OPEB expense as follows:

Deferred Outflows/(Inflows) of Resources					
Fiscal years		Hetchy Water	Hetchy Power	CleanPowerSF	Total
2019	$	(6)	(8)	(1)	(15)
2020		(6)	(8)	—	(14)
2021		(6)	(8)	—	(14)
2022		(8)	(7)	—	(15)
2023		—	—	—	—
Thereafter		—	—	—	—

(Dollars in thousands, unless otherwise stated)

Actuarial Assumptions

A summary of the actuarial assumptions and methods used to calculate the total OPEB liability as of June 30, 2017 (measurement year) is provided below:

Key Actuarial Assumptions	
Valuation Date	June 30, 2016 updated to June 30, 2017
Measurement Date	June 30, 2017
Actuarial Cost Method	The Entry Age Actuarial Cost Method is used to measure the Plan's Total OPEB Liability
Healthcare Cost Trend Rates	Pre-Medicare trend starts at 7.25% and trends down to ultimate rate of 4.5%
	Medicare trend starts at 7.0% and trends down to ultimate rate of 4.5%
	10-County average trend starts at 6.0% and trends down to ultimate rate of 4.5%
Expected Rate of Return on Plan Assets	7.50%
Discount Rate	7.50%
Salary Increase Rate	Wage Inflation Component: 3.50%
	Additional Merit Component (dependent on years of service):
	Police: 0.00% - 8.00%
	Fire: 0.00% - 15.00%
	Muni Drivers: 0.00% - 15.00%
	Craft: 0.00% - 3.50%
	Misc: 0.00% - 5.25%
Inflation Rate	Wage Inflation: 3.50% compounded annually
	Consumer Price Inflation: 3.00% compounded annually
Mortality Tables	Base mortality tables are developed by multiplying a published table by an adjustment factor developed in SFERS experience study for the period ending June 30, 2014.

Non-Annuitant - CalPERS employee mortality tables without scale BB projection

Gender	Adjustment Factor	Base Year
Female	0.918	2009
Male	0.948	2009

Healthy Annuitants - CalPERS healthy annuitant mortality table without scale BB projection

Gender	Adjustment Factor	Base Year
Female	1.014	2009
Male	0.909	2009

Miscellaneous Disable Annuitants - RP-2014 Disabled Retiree Tables without MP-2014 projection

Gender	Adjustment Factor	Base Year
Female	1.066	2006
Male	0.942	2006

Safety Disables Annuitants - CalPERS industrial disability mortality table without scale BB projection

Gender	Adjustment Factor	Base Year
Female	0.983	2009
Male	0.909	2009

Sensitivity of Liabilities to Changes in the Healthcare Cost Trend Rate and Discount Rate

The following presents Hetch Hetchy's proportionate share of the City's net OPEB liability calculated using the healthcare cost trend rate, as well as what its allocation of the City's net OPEB liability would be if it were calculated using a healthcare cost trend rate that is 1% lower or 1% higher than the current rate:

Fiscal Year 2018		Hetchy Water	Hetchy Power	CleanPowerSF	Total
-1.00%	$	13,852	16,930	635	31,417
Baseline		15,872	19,400	727	35,999
1.00%		18,370	22,453	842	41,665

(Dollars in thousands, unless otherwise stated)

Discount Rate

The discount rate used to measure the total OPEB liability as of June 30, 2017 was 7.50%. Based on the assumption that plan member contributions will continue to be made at the rates specified in the Charter, it was determined that the Plan's projected fiduciary net position will be greater than or equal to the benefit payments projected for each future period. As such, the long-term expected rate of return on plan investments was applied to all periods of projected benefit payments to determine the total OPEB liability.

The long-term expected rate of return on OPEB plan investments was 7.50% based on expected future returns and historical returns experienced by the Trust Fund. Expected future returns were determined based on 10-year and 20-year capital market assumptions for the Trust Fund's asset allocation. Target allocation for each major asset class are summarized in the following table:

Asset Class	Target Allocation	20-year Expected Return
U.S. Equities	41.0 %	7.3 %
Developed Market Equity (non-U.S.)	20.0	7.1
Emerging Market Equity	16.0	9.4
High Yield Bonds	3.0	5.4
Bank Loans	3.0	5.0
Emerging Market Bonds	3.0	5.4
Treasury Inflation Protected Securities	5.0	3.3
Investment Grade Bonds	9.0	3.6
	100.0	

The asset allocation targets summarized above have a 20-year return estimate of 7.75%, which was weighted against a 10-year model estimating a 6.59% return, resulting in the ultimate long-term expected rate of return of 7.50%.

The following presents Hetch Hetchy's proportionate share of the City's net OPEB liability calculated using the discount rate, as well as what Hetch Hetchy's proportionate share of the City's net OPEB liability would be if it were calculated using a discount rate that is 1% lower or 1% higher than the current rate:

Fiscal Year 2018		Hetchy Water	Hetchy Power	CleanPowerSF	Total
1% Decrease Share of NOL @ 6.50%	$	18,183	22,224	833	41,240
Share of NOL @ 7.50%		15,872	19,400	728	36,000
1% Increase Share of NOL @ 8.50%		13,978	17,084	640	31,702

(11) Related Parties

(a) *Hetch Hetchy Water and Power*

Various common costs incurred by the SFPUC are allocated among Hetch Hetchy, Water, and the Wastewater Enterprises. The allocations are based on the SFPUC management's best estimate and may change from year to year depending on the activities incurred by each Enterprise and the information available. For the years ended June 30, 2018 and 2017, the SFPUC allocated $14,809, or 17.7%, and $14,361, or 17.4%, respectively, in administrative costs to Hetch Hetchy, which is included in the financial statements under various expense categories. These costs are then allocated to Hetchy Water and Hetchy Power in the Hetch Hetchy financial statements, using the periodically reviewed department overhead allocation model.

The City performs certain administrative services such as maintenance of accounting records and investment of cash for all fund groups within the City. The various funds are charged for these services based on the City's indirect cost allocation plan. The overhead allocation paid to the General Fund of the City by Hetch Hetchy was $119 and $224 for the years ended June 30, 2018 and 2017, respectively, and is included in other operating expenses in the accompanying financial statements. Some City departments provide direct services such as engineering, purchasing, legal, data processing, telecommunication, and human resources to Hetch Hetchy and charge amounts designed to recover those departments' costs. These charges totaling approximately $7,420 and $8,678 for the years ended June 30, 2018 and 2017, respectively, have been included in services provided by other departments in the accompanying financial statements.

SFPUC's 75-year lease agreement with the San Francisco Recreation and Parks Department, for the use of parking spaces for its fleet of vehicles at the Civic Center Garage, commenced on February 1, 2011. Total payment under this agreement is $6,274, which was fully made as of fiscal year 2015. The expenses and prepayments among the three SFPUC Enterprises are based on 525 Golden Gate occupancy. As of June 30, 2018, Hetch Hetchy's allocable shares of expenses and prepayment were $16 and $973, respectively, and as of June 30, 2017 were $17 and $989, respectively.

(b) *Hetchy Water*

The Water Enterprise purchases water from Hetchy Water. Included in the operating revenues are the water assessment fees of $32,600 and $34,600 for the years ended June 30, 2018 and 2017, respectively. The water assessment fees represent a recovery to fund upcountry, water-related costs that are not otherwise funded through Hetchy water-related revenue or Water revenue bonds.

Hetchy Water received $30,000 and $60,000 for the years ended June 30, 2018 and 2017, respectively, from the Water Enterprise to fund upcountry projects.

(c) *Hetchy Power*

As of June 30, 2018, and 2017, operating revenues in sales of power to departments within the City were $90,019 and $87,656, respectively.

The Water Enterprise also purchases electricity and gas from Hetchy Power. This amount totaled $9,047 and $8,480 for the years ended June 30, 2018 and 2017, respectively.

The Wastewater Enterprise purchases electricity and gas from Hetchy Power. This amount totaled $10,195 and $10,738 for the years ended June 30, 2018 and 2017, respectively.

Hetchy Power facilitates all electric and gas service connections between PG&E and City departments. In this capacity, Hetchy Power facilitates and coordinates the terms and payment for the service connections that are performed by PG&E. As of June 30, 2018, and 2017, there was no outstanding amount due from City departments related to this work. In the event Hetchy Power received money from PG&E after project completion, monies are to be refunded to the City departments for their respective credits.

Due from other City departments was $10,732 and $11,196 with elimination of a $5,601 working capital loan to CleanPowerSF for the years ended June 30, 2018 and 2017, respectively. Hetchy Power serves as the City's department for energy efficiency projects and maintains the

(Dollars in thousands, unless otherwise stated)

Sustainable Energy Account (SEA) (formerly known as the Mayor's Energy Conservation Account) fund to sponsor and financially support such projects at various City departments. In this role, Hetchy Power may secure low-interest financing to supplement funds available in the SEA fund. At June 30, 2018 and 2017, projects completed or under way throughout the City amounted to $6,254 and $6,931, respectively, and are recorded as due from other government agencies.

Besides funding the SEA projects, in fiscal year 2010, Hetch Hetchy funded a project for the Treasure Island Development Authority and recorded $2,599 as due from other government agencies. Hetchy Power and the Moscone Center have renegotiated the memoranda of understanding to extend the payment terms of the receivables to match the useful life of underlying assets.

As of June 30, 2018, and 2017, Hetchy Power recorded receivables of $1,061 and $1,166, respectively, due from the Wastewater Enterprise for its share of costs relating to SFPUC Headquarters Living Machine System. Details of due from other City departments are as follows:

	2018	2017
Moscone Center	$ 6,075	6,581
San Francisco General Hospital	179	350
Total SEA-related projects	6,254	6,931
Treasure Island Development Authority	2,599	2,599
Wastewater - 525 Golden Gate Headquarters Project	1,061	1,166
San Francisco Recreation and Park	734	—
Department of Public Works	84	37
CleanPowerSF - Electricity Purchases	—	387
Office of Community Investment and Infrastructure	—	76
Total due from other City departments	10,732	11,196
Less: current portion	(980)	(1,282)
Long-term portion as of June 30, net	$ 9,752	9,914

(d) *CleanPowerSF*

As of June 30, 2018, and 2017, operating revenues in sales of power to Hetchy Power were $0 and $12, respectively. Operating expenses in purchase of power from Hetchy Power were $3,501 and $1,893, respectively. Wholesale sales of energy, capacity and/or other electric power related products may be made between the CleanPowerSF and Hetchy Power, when available. CleanPowerSF and Hetchy Power transact for such products at prevailing market prices.

CleanPowerSF received program support services from Hetchy Power. This amount totaled $207 and $181 for the years ended June 30, 2018 and 2017, respectively.

(12) Risk Management

The Enterprise's Risk Management program includes both self-insured (i.e., self-retention) and insured exposures at risk. Risk assessments and purchasing of insurance coverage are collaboratively coordinated by SFPUC Enterprise Risk Management and the City's Office of Risk Management. With certain exceptions, the City and the Enterprise's general approach is to first evaluate the exposure at risk for self-insurance. Based on this analysis, internal mitigation strategies and financing through a self-retention mechanism are generally more economical as the SFPUC in coordination with the City Attorney's Office administers, adjusts, settles, defends, and pays claims from budgeted resources (i.e., pay-as-you-go fund). When economically more viable or when required by debt financing covenants, the

(Dollars in thousands, unless otherwise stated)

Enterprise obtains commercial insurance. At least annually, the City actuarially determines general liability and workers' compensation risk exposures. The Enterprise does not maintain commercial earthquake coverage, with certain minor exceptions, such as a sub-limit for fire-sprinkler leakage due to earthquake under the SFPUC Property Insurance Program.

Primary Risks	Typical Coverage Approach
General liability	Self-Insured
Property	Purchased Insurance and Self-Insured
Electronic data processing	Purchased Insurance and Self-Insured
Workers' compensation	Self-Insured through Citywide Pool

Other Risks	Typical Coverage Approach
Surety bonds	Purchased and Contractually Transferred
Errors and omissions	Combination of Self-Insured and Contractual Risk Transfer
Professional liability	Combination of Self-Insured and Contractual Risk Transfer
Public officials liability	Purchased Insurance
Employment practices liability	Purchased Insurance
Builders' risk	Contractually Transferred
Crime	Purchased Insurance

(a) *General Liability*

Through coordination with the Controller and the City Attorney's Office, the general liability risk exposure is actuarially determined and is addressed through pay-as-you-go funding as part of the budgetary process. Associated costs and estimates are booked as expenses as required under GAAP for financial statement purposes for both the Enterprise and the City and County of San Francisco's Comprehensive Annual Financial Report. The claim expense allocations are determined based on actuarially determined anticipated claim payments and the projected timing of disbursement.

The changes for the general liability (damage claims) for the years ended June 30, 2018 and 2017 are as follows:

Fiscal years	Beginning of year	Claims and changes in estimates	Claims paid	End of year
Hetch Hetchy*				
2018	$ 2,438	2,975	(2,947)	2,466
2017	1,861	3,146	(2,569)	2,438
Hetchy Water				
2018	$ 586	786	(1,139)	233
2017	353	1,082	(849)	586
Hetchy Power				
2018	$ 1,852	2,189	(1,808)	2,233
2017	1,508	2,064	(1,720)	1,852

*CleanPowerSF had no general liability as of June 30, 2018 and 2017.

(Dollars in thousands, unless otherwise stated)

(b) *Property and Electronic Data Processing*

The Enterprise's property risk management approach varies depending on whether the facility is currently under construction, the property is part of revenue-generating operations, the property is of high value, or is mission-critical in nature. During the course of construction, the Enterprise requires each contractor to provide its own insurance, while ensuring the full scope of work is covered with satisfactory levels to limit the Enterprise's risk exposure. Once construction is complete, the Enterprise performs an assessment to determine whether liability/loss coverage will be obtained through the commercial property policy or self-insurance. The majority of property scheduled in the insurance program is for (1) revenue generating facilities, (2) debt financed facilities, (3) mandated coverage to meet statutory requirements for bonding of various public officials, or (4) high-value, mission-critical property or equipment. The Electronic Data Processing policy protects selected high-value electronic property in case of damage or loss.

(c) *Workers' Compensation*

The City actuarially determines and allocates workers' compensation costs to the Enterprise according to a formula based on the following: (i) the dollar amount of claims; (ii) yearly projections of payments based on historical experience; and (iii) the size of the Enterprise's payroll. The administration of workers' compensation claims and payouts are handled by the Workers' Compensation Division of the City's Department of Human Resources. Statewide workers' compensation reforms have resulted in budgetary savings in recent years. The City continues to develop and implement improved programs, such as return-to-work programs, to lower or mitigate the growth of workers' compensation costs. Programs include accident prevention, investigation, and duty modification for injured employees with medical restrictions so return to work can occur as soon as possible.

The changes for the workers' compensation liabilities for the years ended June 30, 2018 and 2017 are as follows:

Fiscal years	Beginning of year	Claims and changes in estimates	Claims paid	End of year
Hetch Hetchy*				
2018	$ 2,969	561	(581)	2,949
2017	2,964	861	(856)	2,969
Hetchy Water				
2018	$ 999	207	(217)	989
2017	997	224	(222)	999
Hetchy Power				
2018	$ 1,970	354	(364)	1,960
2017	1,967	637	(634)	1,970

*CleanPowerSF had no workers' compensation liabilities as of June 30, 2018 and 2017.

(d) *Surety Bonds*

Bonds are required in most phases of the public utilities construction contracting process for such phases as bid, performance, and payment or maintenance. Additionally, bonds may be required in other contracts where goods or services are provided to ensure compliance with applicable terms and conditions such as warranty.

(e) *Errors and Omissions, Professional Liability*

Errors and omissions and professional liability are commonly transferred through contract to the contracted professional, or retained through self-insurance on a case-by-case basis depending on the size, complexity, or scope of construction or professional service contracts. Examples of such contracts are inclusive of services provided by engineers, architects, design professionals, and other licensed or certified professional service providers.

(f) *Public Officials Liability, Employment Practices Liability*

All Enterprise public officials with financial oversight responsibilities are provided coverage through a commercial Public Officials Liability Policy. An Employment Practices Liability Policy is retained to protect against employment-related claims and liabilities.

(g) *Builders' Risk*

Builders' Risk policies of insurance are required to be provided by the contractor on all construction projects for the full value of construction.

(h) *Crime*

The Enterprise also retains a Commercial Crime Policy, in lieu of bonding its employees, to provide coverage against liabilities or losses due to third-party crime or employee fraud.

(i) *Energy Risk Management*

Similar to other electric utilities with a heavy reliance on hydroelectric generation, Hetch Hetchy is exposed to risks that could impact its ability to generate net revenues to fund operating and capital investment activities. Hydroelectric generation facilities in the Sierra Nevada are the primary source of electricity for Hetch Hetchy. For this reason, the Hetch Hetchy revenues can vary with watershed hydrology, unexpected generator outages, and market prices for energy. Given the inherent risk for all hydroelectric generation, several risk management interventions have been developed to mitigate exposure.

(j) *Enterprise Risk Management*

The Power Enterprise adopted the ISO 31000 standard for Hetchy Power and the CleanPowerSF program as the framework for implementing Enterprise Risk Management (ERM). The Enterprise utilizes this framework to systematically and proactively identify and mitigate risks that threatens its business objectives. Since not all risks are insurable or transferable contractually, the ERM program provides an additional method to manage risks and protect the Enterprise's current and expanding business allowing for increased operational resiliency and the ability to capitalize on opportunities.

(13) Commitments and Litigation

(a) *Commitments*

As of June 30, 2018, and 2017, Hetch Hetchy, has outstanding commitments with third parties of $113,361 and $72,736, respectively, for various capital projects and other purchase agreements for materials and services.

(Continued)

Hetchy Water

To meet certain requirements of the Don Pedro Reservoir operating license, the City entered into an agreement with the MID and TID in which the Districts would be responsible for an increase in water flow releases from the reservoir in exchange for annual payments from the City, which are included in Hetchy Water's operating expenses. The payment amounts were $4,793 and $4,716 for fiscal years 2018 and 2017, respectively. The payments are to be made for the duration of the license, but may be terminated with one year's prior written notice after 2001. The City and the Districts have also agreed to monitor the fisheries in the lower Tuolumne River for the duration of the license. A maximum monitoring expense of $1,400 is to be shared between the City and the Districts over the term of the license. The City's share of the monitoring costs is 52%, while the Districts are responsible for 48% of the costs.

Hetchy Power

District Sales

In April 1988, Hetchy Power entered into two separate long-term power sales agreements (the Agreement) with the two irrigation districts, the MID and TID, which expired June 30, 2015. In April 2015, the Commission and the Board of Supervisors approved the extension of both agreements for one year to June 30, 2016. A second extension agreement was subsequently approved to extend both agreements for an additional year to June 30, 2017, with an automatic six month extension through December 31, 2017. Terms and conditions for the MID extension agreement were the same as the original agreement. The second extension agreement for TID removed the District's rights to excess energy from the project and terminated those conditions with the first extension agreement on June 30, 2016. Extended agreements for MID and TID expired on December 31, 2017.

The SFPUC will continue to comply with the Raker Act by making Hetch Hetchy generated hydropower available at cost to MID and TID for their agricultural pumping and municipal loads as energy from the Hetch Hetchy project is available after meeting the SFPUC's municipal load obligations.

For fiscal years 2018 and 2017, energy sales to the Districts totaled 46,651 Megawatt hours (MWh) or $2,636 and 152,321 MWh or $7,808 respectively. The decrease was primarily due to no purchase agreement with MID and TID in fiscal year 2018, beginning January 1, 2018.

1987 Interconnection Agreement and 2015 Replacement Agreements

In 1987, the City entered into an interconnection agreement with PG&E to provide transmission, distribution, and other support services for the City's use of PG&E's transmission and distribution system to deliver the City's Hetchy power and purchases to the City's customers. The renegotiated agreement in 2007 expired on July 1, 2015. In December 2014, PG&E filed several separate replacement service and facilities agreements with the FERC for its approval. By FERC order, the City is currently taking transmission service on PG&E's transmission system using the CAISO Open-Access Transmission Tariff and is taking distribution service under PG&E's Wholesale Distribution Tariff pursuant to PG&E's replacement agreements, but subject to waiver of certain terms and conditions and subject to refund by PG&E, pending the FERC's final decision. During fiscal years 2018 and 2017, Hetchy Power purchased $9,570 and $8,595, respectively, of transmission, distribution services, and other support services from PG&E under the terms of the replacement agreements and the 1987 Interconnection Agreement.

Western System Power Pool and other Market Purchases and Sales

Hetchy Power may purchase or sell energy and other related products (such as ancillary services, spinning reserves, resource adequacy products, and congestion revenue rights) with different market entities through the Western System Power Pool (WSPP) and the CAISO. During fiscal years 2018 and 2017, Hetchy Power purchased $6,656 and $0 of power and other related products, respectively. Sales of excess power, after meeting Hetch Hetchy's obligations, were 15,900 MWh, or $668, for 2018 and 29,050 MWh, or $755, for 2017.

Power Purchase Agreement (PPA)

Hetchy Power (Buyer) purchases energy, capacity, and environmental attributes from a solar photovoltaic project located at Sunset Reservoir (the facility) pursuant to the 2009 25-year PPA with SFCity1, LP, owned by Duke Energy (Seller). In November 2010, the facility commenced commercial operation and began to provide Hetchy Power energy generated by the facility.

The PPA sets the starting purchase price of generated energy at $235/MWh, increasing by 3% each year throughout the term of the agreement, and it is expected that the facility will generate 6,560 MWh per year. In fiscal year 2018, the facility generated 6,887 MWh and rate was at $306/MWh. In the event that the facility generates more energy than expected due to better than normal meteorological conditions, the PPA requires the Buyer to purchase all the excess energy but generation in excess of 120% of expected is purchased at no cost. The PPA also requires the Seller to generate a minimum amount of energy from the facility annually. If energy production falls below 50% of expected, the Seller must provide replacement power, and if energy falls below 90% of expected, the price for energy generated is lowered. In fiscal years 2018 and 2017, purchases of energy under the Agreement were $2,015, or 6,887 MWh, and $1,847, or 6,505 MWh, respectively.

CleanPowerSF

CleanPowerSF began serving customers in May 2016 and entered into contracts with Calpine Energy Services L.P. (Calpine) and Shiloh I Wind Project LLC (Shiloh) to purchase renewable and conventional energy and resource adequacy capacity to meet its retail sales obligations. Both contracts feature 10-year master agreements under which multiple transactions may be executed. CleanPowerSF had executed two multi-year transactions with Calpine (three-year term) and Shiloh (five-year term). The Calpine requires a reserve balance of $3,049 and $2,640 as of June 30, 2018 and 2017, respectively, which is equivalent to two months' worth of estimated payment. As of June 30, 2018, and 2017, total electricity purchased from Calpine and Shiloh were $19,796 and $17,265 respectively.

Since its launch, CleanPowerSF has added multiple short-term and medium-term contracts to purchase renewable, carbon-free and conventional energy and resource adequacy capacity, as well as long-term contracts for renewable energy with sPower and Terra-Gen. These contracts have been entered into to allow CleanPowerSF to both meet its existing retail sales obligations and to support future retail sales from the citywide expansion of the CleanPowerSF program planned to occur by the end of 2019. The total contract cost of long-term renewable energy contracts with sPower (a 22-year contract starting delivery in July 2019) and Terra-Gen (a 15-year contract starting delivery in December 2020) are $219,219 and $102,339, respectively, over each contract's term. Additional short-term and medium-term contracts (of commitments ranging from less than 1 year to 5 years) for renewable, carbon-free and conventional energy to be delivered during 2019 to 2023 totaled to be $353,216 over their terms.

Customer and Administrative Services

CleanPowerSF entered into a contract with Noble Americas Energy Solutions in November 2015 for a three-year term, not to exceed $5,600 to provide data management, billing administration and customer care services. On December 1, 2016, Noble Americas Energy Solutions was acquired by Calpine Corporation and was renamed Calpine Energy Solutions. Subsequently, CleanPowerSF's contract was assigned to Calpine Energy Solutions under its new name and ownership. During fiscal year 2018 and 2017, amounts paid were $1,526 and $990, respectively.

CleanPowerSF Guarantee

In March 2018, CleanPowerSF entered into a five-year, $75,000 Credit Agreement with J.P. Morgan Chase in order for the program to secure letters of credit to guarantee certain payment obligations of CleanPowerSF and to meet working capital needs of CleanPowerSF, if necessary. The Credit Agreement is secured by CleanPowerSF net revenues; there is no pledge of or Lien on CleanPowerSF net revenues that ranks senior to the obligations of the Credit Agreement. The letters of credit, issued by J.P. Morgan Chase, were in the amount of $18,091 and $13,939 as of June 30, 2018 and 2017, respectively. There was no draw against the Credit Agreement during fiscal years 2018 and 2017.

(b) *Litigation*

Hetch Hetchy is a defendant in various legal actions and claims that arise during the normal course of business. The final disposition of these legal actions and claims is not determinable. However, in the opinion of management, the outcome of any litigation of these matters will not have a material effect on the financial position or changes in net position of Hetch Hetchy.

(c) *Grants*

Grants that the Enterprise received are subject to audit and final acceptance by the granting agency. Current and prior year costs of such grants are subject to adjustment upon audit.

(d) *Environmental Issue*

As of June 30, 2018, and 2017, there was no pollution remediation liability recorded.

(14) Subsequent Event

Power Revenue Bonds Rating Change – Hetchy Power

On November 2, 2018, S&P Global Ratings, a division of Standard & Poor's Financial Services LLC ("S&P"), raised its long-term rating on the Power Enterprise Revenue Bonds to "AA" from "A+" and affirmed Hetchy Power's "stable" outlook.

Power Commercial Paper Program – Hetchy Power

On November 13, 2018, the Commission approved Resolution No. 18-0188 which authorized an increase in the authorization of the Power Enterprise Commercial Paper Program from not-to-exceed $90,000 to not-to-exceed $250,000 of aggregate principal amount. In support of the expanded Program, Resolution No. 18-0188 also authorized the SFPUC to enter into bank credit facilities with Bank of America, N.A. and Sumitomo Mitsui Bank, each in the principal amount of $125,000 and for terms of three years and four years, respectively; and it also authorized extending the dealer agreements with RBC Capital Markets, Barclays and Goldman Sachs for four years each.

Calpine Energy Solutions Contract Extension - CleanPowerSF

In November 2018, upon expiration of the first contract term, CleanowerSF extended its contract with Calpine Energy Solutions for an additional three-year term and increased the contract's total not-to-exceed value to $18,769.

PG&E Intension to File Bankruptcy – Hetchy Power and CleanPowerSF

On January 13, 2019, Pacific Gas and Electric (PG&E) filed Form 8-K with the Securities and Exchange Commission, which is the 15-day advance notice required by recently enacted California law that it and its wholly owned subsidiary Pacific Gas and Electric Company (the "Utility") currently intend to file petitions to reorganize under Chapter 11 of the U.S. Bankruptcy Code on or about January 29, 2019. The Enterprise has a number of business relationships involving PG&E in the provision of electric services to customers, including electric transmission, distribution and customer billing services. As of January 25, 2019, the Enterprise has not yet determined the impact of PG&E's intended filing to reorganize under Chapter 11 of the U.S. Bankruptcy Code, to Hetchy Power and CleanPowerSF program operations.

KPMG LLP
Suite 1400
55 Second Street
San Francisco, CA 94105

Independent Auditors' Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance With *Government Auditing Standards*

The Honorable Mayor and Board of Supervisors
City and County of San Francisco:

We have audited, in accordance with the 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, the financial statements of the business-type activities and each major fund of Hetch Hetchy Water and Power and CleanPowerSF (Hetch Hetchy), an enterprise fund of the City and County of San Francisco, California (the City), which comprise the statement of financial position as of June 30, 2018, and the related statements of revenues, expenses, and changes in net position, and cash flows for the year then ended, and the related notes to the financial statements, and have issued our report thereon dated January 25, 2019. Our report also includes an emphasis of matter paragraph related to the Hetch Hetchy's adoption of Governmental Accounting Standards Board (GASB) Statement No. 75, *Accounting and Financial Reporting for Other Postemployment Benefits Other Than Pensions*. The July 1, 2017 beginning net position was restated for the retrospective application of this new accounting guidance.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered Hetch Hetchy's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing opinions on the financial statements, but not for the purpose of expressing opinions on the effectiveness of Hetch Hetchy's internal control. Accordingly, we do not express opinions on the effectiveness of Hetch Hetchy's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

KPMG

Compliance and Other Matters

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

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide opinions on the effectiveness of the Hetch Hetchy's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Hetch Hetchy's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

KPMG LLP

San Francisco, California
January 25, 2019

San Francisco Public Utilities Commission
A Department of the City and County of
San Francisco, California

Photos by: Robin Scheswohl

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Communications Division
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Financial Services
525 Golden Gate Avenue, 4th Floor
San Francisco, CA 94102-3220
sfwater.org

Our Mission

To provide our customers with high-quality, efficient and reliable water, power and sewer services in a manner that values environmental and community interests and sustains the resources entrusted to our care.

Attachment B: CleanPowerSF Rates Tables

Effective July 1, 2017 and March 1, 2018

Schedule of CleanPowerSF Electric Rates and Charges Effective 7/1/2017

Tariff Title	Applies To Customers on Following PG&E Rate Schedules	Season	Hours Applied	PG&E Generation Rate ($) as of March 1, 2017	Green Rate ($)	SuperGreen Rate ($)	Billing Determinant
Non-Time of Use Residential (E-1)	E1, E1L, EM, EML, ES, ESL, ESR, ESRL, ET, and ETL	Year round	All hours	0.09838	0.06836	0.08836	kWh
Residential Time of Use (1) (E-6)	E-6	Summer	Peak	0.21671	0.18640	0.20640	kWh
			Part Peak	0.11384	0.08379	0.10379	kWh
			Off Peak	0.07185	0.04190	0.06190	kWh
		Winter	Part Peak	0.09516	0.06515	0.08515	kWh
			Off Peak	0.08362	0.05364	0.07364	kWh
Residential Time of Use A (E-TOU A)	E-TOU A	Summer	Peak	0.18232	0.15209	0.17209	kWh
			Off Peak	0.10674	0.07670	0.09670	kWh
		Winter	Peak	0.09498	0.06497	0.08497	kWh
			Off Peak	0.08068	0.05071	0.07071	kWh
Residential Time of Use B (E-TOU B)	E-TOU B	Summer	Peak	0.20442	0.17414	0.19414	kWh
			Off Peak	0.10136	0.07134	0.09134	kWh
		Winter	Peak	0.09758	0.06757	0.08757	kWh
			Off Peak	0.07878	0.04881	0.06881	kWh
Experimental Residential Time-of-Use for Electric Vehicles (E-9A and E-9B)	E-9A and E-9B	Summer	Peak	0.20645	0.17616	0.19616	kWh
			Part Peak	0.10296	0.07293	0.09293	kWh
			Off Peak	0.06096	0.03104	0.05104	kWh
		Winter	Part Peak	0.08325	0.05327	0.07327	kWh
			Off Peak	0.06793	0.03799	0.05799	kWh
Electric Vehicle Time-of-Use Service (EV)	EVA, EVB	Summer	Peak	0.23092	0.20057	0.22057	kWh
			Part Peak	0.11128	0.08123	0.10123	kWh
			Off Peak	0.05593	0.02602	0.04602	kWh
		Winter	Peak	0.08629	0.05630	0.07630	kWh
			Part Peak	0.05391	0.02401	0.04401	kWh
			Off Peak	0.05792	0.02801	0.04801	kWh
Residential Multi Meter Standby	EM, S	Year round	Reservation Charge	0.39	0.39	0.39	kW
			All hours	0.09838	0.06836	0.08836	kWh
Small General Service (A-1)	A-1 A	Summer	All hours	0.11518	0.09225	0.10625	kWh
		Winter	All hours	0.07924	0.05640	0.07040	kWh
Small General Service (A-1TOU)	A-1 B	Summer	Peak	0.13086	0.10789	0.12189	kWh
			Part Peak	0.10721	0.08430	0.09830	kWh
			Off Peak	0.07985	0.05701	0.07101	kWh
		Winter	Part Peak	0.10701	0.08410	0.09810	kWh
			Off Peak	0.08610	0.06324	0.07724	kWh
Small General Time-of-Use Service (A-6)	A-6	Summer	Peak	0.36486	0.34131	0.35531	kWh
			Part Peak	0.12528	0.10233	0.11633	kWh
			Off Peak	0.06699	0.04418	0.05818	kWh
		Winter	Part Peak	0.09245	0.06958	0.08358	kWh
			Off Peak	0.07496	0.05213	0.06613	kWh
Direct-Current General Service (A-15)	A-15	Summer	All hours	0.11518	0.09225	0.10625	kWh
		Winter	All hours	0.07924	0.05640	0.07040	kWh
Medium General Demand Non-Time of Use - Secondary Voltage (A-10AS)	A-10 A	Summer	All hours	0.10492	0.08145	0.09545	kWh
		Winter	All hours	0.08055	0.05714	0.07114	kWh
		Summer	Demand	4.89000	4.88	4.88	kW
Med. General Demand Non-Time of Use - Primary Voltage (A-10AP)		Summer	All hours	0.09664	0.07319	0.08719	kWh
		Winter	All hours	0.07537	0.05197	0.06597	kWh
		Summer	Demand	4.28000	4.27	4.27	kW
Med. General Demand Non-Time of Use - Transmission (A-10AT)		Summer	All hours	0.08800	0.06457	0.07857	kWh
		Winter	All hours	0.06946	0.04608	0.06008	kWh
		Summer	Demand	3.37000	3.36	3.36	kW
Medium General Demand Time of Use - Secondary Voltage (A-10BS)	A-10 B	Summer	Peak	0.15972	0.13611	0.15011	kWh
			Part Peak	0.10459	0.08112	0.09512	kWh
			Off Peak	0.07652	0.05312	0.06712	kWh
		Winter	Part Peak	0.08864	0.06521	0.07921	kWh
			Off Peak	0.07158	0.04819	0.06219	kWh
		Summer	Demand	4.89000	4.88	4.88	kW
Medium General Demand Time of Use - Primary Voltage (A-10BP)		Summer	Peak	0.14944	0.12586	0.13986	kWh
			Part Peak	0.09888	0.07542	0.08942	kWh
			Off Peak	0.07225	0.04886	0.06286	kWh
		Winter	Part Peak	0.08518	0.06176	0.07576	kWh
			Off Peak	0.06930	0.04592	0.05992	kWh
		Summer	Demand	4.28000	4.27	4.27	kW
Medium General Demand Time of Use - Transmission (A-10BT)		Summer	Peak	0.13732	0.11377	0.12777	kWh
			Part Peak	0.09044	0.06700	0.08100	kWh
			Off Peak	0.06514	0.04177	0.05577	kWh
		Winter	Part Peak	0.07865	0.05524	0.06924	kWh
			Off Peak	0.06408	0.04071	0.05471	kWh
		Summer	Demand	3.37000	3.36	3.36	kW

Tariff Title	Applies To Customers on Following PG&E Rate Schedules	Season	Hours Applied	PG&E Generation Rate ($) as of March 1, 2017	Green Rate ($)	SuperGreen Rate ($)	Billing Determinant
Medium General Demand Time of Use - Secondary (E-19S)	E-19	Summer	Peak	0.12552	0.10568	0.11968	kWh
			Part Peak	0.08501	0.06527	0.07927	kWh
			Off Peak	0.05819	0.03851	0.05251	kWh
			Peak Demand	12.63000	12.60	12.60	kW
			Part Peak Demand	3.12000	3.11	3.11	kW
		Winter	Part Peak	0.07947	0.05974	0.07374	kWh
			Off Peak	0.06485	0.04516	0.05916	kWh
Medium General Demand Time of Use - Primary (E-19P)		Summer	Peak	0.11638	0.09656	0.11056	kWh
			Part Peak	0.07800	0.05828	0.07228	kWh
			Off Peak	0.05333	0.03367	0.04767	kWh
			Peak Demand	11.29000	11.26	11.26	kW
			Part Peak Demand	2.75000	2.74	2.74	kW
		Winter	Part Peak	0.07282	0.05311	0.06711	kWh
			Off Peak	0.05942	0.03974	0.05374	kWh
Medium General Demand Time of Use - Transmission (E-19T)		Summer	Peak	0.08032	0.06059	0.07459	kWh
			Part Peak	0.06771	0.04801	0.06201	kWh
			Off Peak	0.05104	0.03138	0.04538	kWh
			Peak Demand	12.42000	12.39	12.39	kW
			Part Peak Demand	3.11000	3.10	3.10	kW
		Winter	Part Peak	0.06970	0.05000	0.06400	kWh
			Off Peak	0.05689	0.03722	0.05122	kWh
Service to Max Demands >1,000 kW Time of Use - Secondary Voltage (E-20S)	E-20	Summer	Peak	0.11670	0.09768	0.11168	kWh
			Part Peak	0.07985	0.06092	0.07492	kWh
			Off Peak	0.05455	0.03568	0.04968	kWh
			Peak Demand	12.24000	12.21	12.21	kW
			Part Peak Demand	3.02000	3.01	3.01	kW
		Winter	Part Peak	0.07450	0.05558	0.06958	kWh
			Off Peak	0.06079	0.04191	0.05591	kWh
Service to Max Demands >1,000 kW Time of Use - Primary Voltage (E-20P)		Summer	Peak	0.11932	0.10163	0.11563	kWh
			Part Peak	0.07870	0.06111	0.07511	kWh
			Off Peak	0.05372	0.03620	0.05020	kWh
			Peak Demand	13.44000	13.41	13.41	kW
			Part Peak Demand	3.18000	3.17	3.17	kW
		Winter	Part Peak	0.07335	0.05578	0.06978	kWh
			Off Peak	0.05986	0.04232	0.05632	kWh
Service to Max Demands >1,000 kW Time of Use - Transmission (E-20T)		Summer	Peak	0.07798	0.06193	0.07593	kWh
			Part Peak	0.06575	0.04973	0.06373	kWh
			Off Peak	0.04956	0.03358	0.04758	kWh
			Peak Demand	15.89000	15.85	15.85	kW
			Part Peak Demand	3.79000	3.78	3.78	kW
		Winter	Part Peak	0.06767	0.05164	0.06564	kWh
			Off Peak	0.05524	0.03924	0.05324	kWh
Customer-Owned Street and Highway Lighting Customer-Owned Street and Highway Lighting Electrolier Meter Rate Outdoor Area Lighting Services (LS-1)	LS-2, LS-3, OL-1	Year round	All hours	0.07997	0.07489	0.08889	kWh
Traffic Control Service (TC-1)	TC-1	Year round	All hours	0.08678	0.06393	0.07793	kWh
Agricultural Power (AG-1)	AG-1 A	Summer	All hours	0.09932	0.07721	0.09121	kWh
			Connected Load	1.36000	1.36	1.36	kW
		Winter	All hours	0.07966	0.05760	0.07160	kWh
	AG-1 B	Summer	All hours	0.10228	0.08016	0.09416	kWh
			Max Demand	2.04000	2.03	2.03	kW
			Primary Voltage Disc.	0.76000	0.76	0.76	kW
		Winter	All hours	0.07973	0.05767	0.07167	kWh

Tariff Title	Applies To Customers on Following PG&E Rate Schedules	Season	Hours Applied	PG&E Generation Rate ($) as of March 1, 2017	Green Rate ($)	SuperGreen Rate ($)	Billing Determinant
Agricultural Power, Time-of-Use (AG-4)	AG-4 A, AG-4 D	Summer	Peak	0.15892	0.13666	0.15066	kWh
			Off Peak	0.06861	0.04658	0.06058	kWh
			Connected Load	1.35000	1.35	1.35	kW
		Winter	Part Peak	0.07271	0.05067	0.06467	kWh
			Off Peak	0.06195	0.03994	0.05394	kWh
	AG-4 B, AG-4 E	Summer	Peak	0.12171	0.09955	0.11355	kWh
			Off Peak	0.07064	0.04860	0.06260	kWh
			Max Demand	2.39000	2.38	2.38	kW
			Max Peak Demand	2.54000	2.53	2.53	kW
			Primary Voltage Disc. (per Max Demand)	0.59000	0.59	0.59	kW
		Winter	Part Peak	0.06888	0.04685	0.06085	kWh
			Off Peak	0.05861	0.03660	0.05060	kWh
	AG-4 C, AG-4 F	Summer	Peak	0.13933	0.11712	0.13112	kWh
			Part Peak	0.07888	0.05682	0.07082	kWh
			Off Peak	0.05691	0.03491	0.04891	kWh
			Max Peak Demand	5.85000	5.84	5.84	kW
			Max Part Peak Demand	1.00000	1.00	1.00	kW
			Primary Voltage Disc. (per Max Peak Demand)	1.01000	1.01	1.01	kW
			Trans. Volt. Disc. Max Peak Demand	1.86000	1.86	1.86	kW
			Trans. Volt. Disc. Max Part-Peak Demand	-0.02000	(0.02)	(0.02)	kW
		Winter	Part Peak	0.06315	0.04113	0.05513	kWh
			Off Peak	0.05371	0.03172	0.04572	kWh
Large Time-of-Use Agricultural Power (AG-5)	AG-5 A, AG-5 D	Summer	Peak	0.14873	0.12650	0.14050	kWh
			Off Peak	0.07353	0.05149	0.06549	kWh
			Connected Load	3.70000	3.69	3.69	kW
		Winter	Part Peak	0.07701	0.05496	0.06896	kWh
			Off Peak	0.06568	0.04366	0.05766	kWh
	AG-5 B, AG-5 E	Summer	Peak	0.14527	0.12305	0.13705	kWh
			Off Peak	0.04884	0.02686	0.04086	kWh
			Max Demand	4.45000	4.44	4.44	kW
			Max Peak Demand	5.57000	5.56	5.56	kW
			Primary Voltage Disc. (per Max Demand)	1.39000	1.39	1.39	kW
			Trans. Volt. Disc. Max Demand	2.43000	2.42	2.42	kW
		Winter	Part Peak	0.06894	0.04691	0.06091	kWh
			Off Peak	0.04053	0.01857	0.03257	kWh
	AG-5 C, AG-5 F	Summer	Peak	0.11976	0.09760	0.11160	kWh
			Part Peak	0.06915	0.04712	0.06112	kWh
			Off Peak	0.05031	0.02832	0.04232	kWh
			Max Peak Demand	10.28000	10.25	10.25	kW
			Max Part Peak Demand	1.93000	1.93	1.93	kW
			Primary Voltage Disc. (per Max Peak Demand)	2.11000	2.10	2.10	kW
			Trans. Volt. Disc. Max Peak Demand	3.96000	3.95	3.95	kW
			Trans. Volt. Disc. Max Part-Peak Demand	0.00000	0.00	0.00	kW
		Winter	Part Peak	0.05596	0.03396	0.04796	kWh
			Off Peak	0.04739	0.02541	0.03941	kWh
Standby Service - Secondary and Primary Voltage	S	Year round	Reservation Charge	0.39000	0.39	0.39	kW
		Summer	Peak	0.09999	0.08900	0.10300	kWh
			Part Peak	0.08412	0.07317	0.08717	kWh
			Off Peak	0.06336	0.05246	0.06646	kWh
		Winter	Part Peak	0.08665	0.07569	0.08969	kWh
			Off Peak	0.07057	0.05965	0.07365	kWh
Standby Service - Transmission Voltage		Year round	Reservation Charge	0.32000	0.32	0.32	kW
		Summer	Peak	0.08396	0.07301	0.08701	kWh
			Part Peak	0.07078	0.05986	0.07386	kWh
			Off Peak	0.05335	0.04248	0.05648	kWh
		Winter	Part Peak	0.07285	0.06193	0.07593	kWh
			Off Peak	0.05947	0.04858	0.06258	kWh
NEM-CleanPowerSF Net Surplus Compensation Rates	NEM-CleanPowerSF	N/A	All hours	N/A	0.06930	0.08930	kWh

Attachment C: CleanPowerSF-PG&E Joint Rate Mailers (2017 and 2018)

Understanding your energy choice

2017 Commercial Rate Comparison, A-1 TOU*	PG&E	PG&E Solar Choice (100% Renewable)	CleanPowerSF Green (40% Renewable)	CleanPowerSF SuperGreen (100% Renewable)
Generation Rate ($/kWh)	$0.09798	$0.09270	$0.07510	$0.08910
PG&E Delivery Rate ($/kWh)	$0.13242	$0.13242	$0.13242	$0.13242
PG&E PCIA/FF ($/kWh)	N/A	$0.02199	$0.02264	$0.02264
Total Electricity Cost ($/kWh)	$0.23040	$0.24711	$0.23016	$0.24416
Average Monthly Bill ($)	$335.17	$359.47	$334.81	$355.18

*This compares electricity costs for an average small commercial time-of-use (TOU) customer in the CleanPowerSF/PG&E service area with an average monthly usage of 1,455 kilowatt-hours (kWh). This is based on a representative 12-month billing history for all customers on A-1 TOU rate schedules for PG&E's and CleanPowerSF's published rates as of July 1, 2017.

Generation Rate is the cost of creating electricity to power your business. The generation rate varies based on your energy provider and the resources included in your energy provider's generation supply.

PG&E Delivery Rate is a charge assessed by PG&E to deliver electricity to your business. The PG&E delivery rate depends on your electricity usage, but is charged equally to both CleanPowerSF and PG&E customers.

PG&E PCIA/FF represents the Power Charge Indifference Adjustment (PCIA) and the Franchise Fee surcharge (FF). The PCIA is a charge to recover PG&E's costs for generation resources that are currently above the market rate. These resources were committed to prior to a customer's switch to a third-party electric generation provider. The PCIA also applies to PG&E customers that elect to take service under PG&E's optional Solar Choice program. PG&E acts as a collection agent for the Franchise Fee surcharge. This fee is imposed by cities and counties in PG&E's service territory for all customers. The costs for resources included in the PCIA and FF surcharges are included in the generation rate for PG&E bundled service customers.

If this comparison does not address your specific rate, please visit us online at cleanpowersf.org or pge.com/cca.

Electric Generation Rates
Price ($) per kWh

PCIA/FF fees are included in PG&E's base generation rates, but are charged separately for CleanPowerSF and Solar Choice customers.

Chart is for illustrative purposes only and is not to scale.

Electric Power Generation Mix*	PG&E	PG&E Solar Choice	CleanPowerSF Green	CleanPowerSF SuperGreen
Specific Purchases	Percent of Total Retail Sales (kWh)			
Renewable	33%	100%	40%	100%
• Biomass & Biowaste	4%	0%	0%	0%
• Geothermal	5%	0%	0%	0%
• Eligible Hydroelectric	3%	0%	0%	0%
• Solar Electric	13%	100%	0%	0%
• Wind	8%	0%	40%	100%
Coal	0%	0%	0%	0%
Large Hydroelectric	12%	0%	38%	0%
Natural Gas	17%	0%	22%	0%
Nuclear	24%	0%	0%	0%
Other	0%	0%	0%	0%
Unspecified Sources of Power**	14%	0%	0%	0%
TOTAL	100%	100%	100%	100%

*As reported to the California Energy Commission's Power Source Disclosure Program excluding voluntary unbundled renewable energy credits. PG&E data is subject to an independent audit and verification that will not be completed until October 1, 2017. The figures above may not sum up to 100 percent due to rounding.

**Unspecified sources of power refers to electricity that is not traceable to a specific generating facility, such as electricity traded through open market transactions. Unspecified sources of power are typically a mix of all resource types, and may include renewables.

For information, visit:
Para detalles de este programa en español, visite:
參閱本計劃中文版本, 請上網:
cleanpowersf.org

Understanding your energy choice

2017 Commercial Rate Comparison, A-10SX*	PG&E	PG&E Solar Choice (100% Renewable)	CleanPowerSF Green (40% Renewable)	CleanPowerSF SuperGreen (100% Renewable)
Generation Rate ($/kWh)	$0.09925	$0.09161	$0.07580	$0.08980
PG&E Delivery Rate ($/kWh)	$0.09655	$0.09655	$0.09655	$0.09655
PG&E PCIA/FF ($/kWh)	N/A	$0.02253	$0.02321	$0.02321
Total Electricity Cost ($/kWh)	$0.19580	$0.21069	$0.19556	$0.20956
Average Monthly Bill ($)	$2,962.16	$3,187.43	$2,958.46	$3,170.26

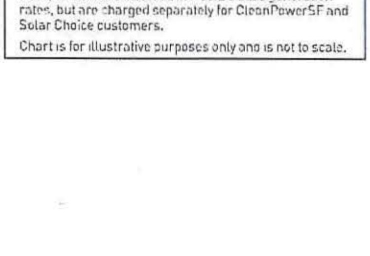
*This compares electricity costs for an average medium commercial time-of-use [TOU] customer in the CleanPowerSF/PG&E service area with an average monthly demand of 44 kW and an average monthly usage of 15,129 kilowatt-hours [kWh]. This is based on a representative 12-month billing history for all customers on A-10SX TOU rate schedules for PG&E's and CleanPowerSF's published rates as of July 1, 2017.

Generation Rate is the cost of creating electricity to power your business. The generation rate varies based on your energy provider and the resources included in your energy provider's generation supply.

PG&E Delivery Rate is a charge assessed by PG&E to deliver electricity to your business. The PG&E delivery rate depends on your electricity usage, but is charged equally to both CleanPowerSF and PG&E customers.

PG&E PCIA/FF represents the Power Charge Indifference Adjustment [PCIA] and the Franchise Fee surcharge [FF]. The PCIA is a charge to recover PG&E's costs for generation resources that are currently above the market rate. These resources were committed to prior to a customer's switch to a third-party electric generation provider. The PCIA also applies to PG&E customers that elect to take service under PG&E's optional Solar Choice program. PG&E acts as a collection agent for the Franchise Fee surcharge. This fee is imposed by cities and counties in PG&E's service territory for all customers. The costs for resources included in the PCIA and FF surcharges are included in the generation rate for PG&E bundled service customers.

If this comparison does not address your specific rate, please visit us online at **cleanpowersf.org** or **pge.com/cca**.



PCIA/FF fees are included in PG&E's base generation rates, but are charged separately for CleanPowerSF and Solar Choice customers.

Chart is for illustrative purposes only and is not to scale.

Electric Power Generation Mix*	PG&E	PG&E Solar Choice	CleanPowerSF Green	CleanPowerSF SuperGreen
Specific Purchases	Percent of Total Retail Sales (kWh)			
Renewable	33%	100%	40%	100%
• Biomass & Biowaste	4%	0%	0%	0%
• Geothermal	5%	0%	0%	0%
• Eligible Hydroelectric	3%	0%	0%	0%
• Solar Electric	13%	100%	0%	0%
• Wind	8%	0%	40%	100%
Coal	0%	0%	0%	0%
Large Hydroelectric	12%	0%	38%	0%
Natural Gas	17%	0%	22%	0%
Nuclear	24%	0%	0%	0%
Other	0%	0%	0%	0%
Unspecified Sources of Power	14%	0%	0%	0%
TOTAL	100%	100%	100%	100%

*As reported to the California Energy Commission's Power Source Disclosure Program excluding voluntary unbundled renewable energy credits. PG&E data is subject to an independent audit and verification that will not be completed until October 1, 2017. The figures above may not sum up to 100 percent due to rounding.

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2017 Residential Rate Comparison, E-1*	PG&E	PG&E Solar Choice (100% Renewable)	CleanPowerSF Green (40% Renewable)	CleanPowerSF SuperGreen (100% Renewable)
Generation Rate ($/kWh)	$0.09838	$0.09529	$0.06836	$0.08836
PG&E Delivery Rate ($/kWh)	$0.13250	$0.13250	$0.13250	$0.13250
PG&E PCIA/FF ($/kWh)	N/A	$0.02919	$0.02977	$0.02977
Total Electricity Cost ($/kWh)	0.23088	$0.25698	$0.23063	$0.25063
Average Monthly Bill ($)	$64.70	$71.95	$64.63	$70.24

*This compares electricity costs for an average residential customer in the CleanPowerSF/PG&E service area with an average monthly usage of 280 kilowatt-hours (kWh). This is based on a representative 12-month billing history for all customers on E-1 rate schedules for PG&E's and CleanPowerSF's published rates as of July 1, 2017.

Generation Rate is the cost of creating electricity to power your home. The generation rate varies based on your energy provider and the resources included in your energy provider's generation supply.

PG&E Delivery Rate is a charge assessed by PG&E to deliver electricity to your home. The PG&E delivery rate depends on your electricity usage, but is charged equally to both CleanPowerSF and PG&E customers.

PG&E PCIA/FF represents the Power Charge Indifference Adjustment (PCIA) and the Franchise Fee surcharge (FF). The PCIA is a charge to recover PG&E's costs for generation resources that are currently above the market rate. These resources were committed to prior to a customer's switch to a third-party electric generation provider. The PCIA also applies to PG&E customers that elect to take service under PG&E's optional Solar Choice program. PG&E acts as a collection agent for the Franchise Fee surcharge. This fee is imposed by cities and counties in PG&E's service territory for all customers. The costs for resources included in the PCIA and FF surcharges are included in the generation rate for PG&E bundled service customers.

If this comparison does not address your specific rate, please visit us online at cleanpowersf.org or pge.com/cca.

Electric Power Generation Mix*	PG&E	PG&E Solar Choice	CleanPowerSF Green	CleanPowerSF SuperGreen
Specific Purchases	Percent of Total Retail Sales (kWh)			
Renewable	33%	100%	40%	100%
• Biomass & Biowaste	4%	0%	0%	0%
• Geothermal	5%	0%	0%	0%
• Eligible Hydroelectric	3%	0%	0%	0%
• Solar Electric	13%	100%	0%	0%
• Wind	8%	0%	40%	100%
Coal	0%	0%	0%	0%
Large Hydroelectric	12%	0%	38%	0%
Natural Gas	17%	0%	22%	0%
Nuclear	24%	0%	0%	0%
Other	0%	0%	0%	0%
Unspecified Sources of Power**	14%	0%	0%	0%
TOTAL	100%	100%	100%	100%

*As reported to the California Energy Commission's Power Source Disclosure Program excluding voluntary unbundled renewable energy credits. PG&E data is subject to an independent audit and verification that will not be completed until October 1, 2017. The figures above may not sum up to 100 percent due to rounding.

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2017 Commercial Rate Comparison, E-19S*	PG&E	PG&E Solar Choice (100% Renewable)	CleanPowerSF Green (40% Renewable)	CleanPowerSF SuperGreen (100% Renewable)
Generation Rate ($/kWh)	$0.09635	$0.09445	$0.07658	$0.09058
PG&E Delivery Rate ($/kWh)	$0.08175	$0.08175	$0.08175	$0.08175
PG&E PCIA/FF ($/kWh)	N/A	$0.01889	$0.01953	$0.01953
Total Electricity Cost ($/kWh)	$0.17810	$0.19509	$0.17786	$0.19186
Average Monthly Bill ($)	$46,012.98	$50,403.26	$45,950.52	$49,567.55

*This compares electricity costs for an average large commercial customer in the CleanPowerSF/PG&E service area with an average monthly demand of 640 kW and an average monthly usage of 258,359 kilowatt-hours (kWh). This is based on a representative 12-month billing history for all customers on E-19S rate schedules for PG&E's and CleanPowerSF's published rates as of July 1, 2017.

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PG&E Delivery Rate is a charge assessed by PG&E to deliver electricity to your business. The PG&E delivery rate depends on your electricity usage, but is charged equally to both CleanPowerSF and PG&E customers.

PG&E PCIA/FF represents the Power Charge Indifference Adjustment (PCIA) and the Franchise Fee surcharge (FF). The PCIA is a charge to recover PG&E's costs for generation resources that are currently above the market rate. These resources were committed to prior to a customer's switch to a third-party electric generation provider. The PCIA also applies to PG&E customers that elect to take service under PG&E's optional Solar Choice program. PG&E acts as a collection agent for the Franchise Fee surcharge. This fee is imposed by cities and counties in PG&E's service territory for all customers. The costs for resources included in the PCIA and FF surcharges are included in the generation rate for PG&E bundled service customers.

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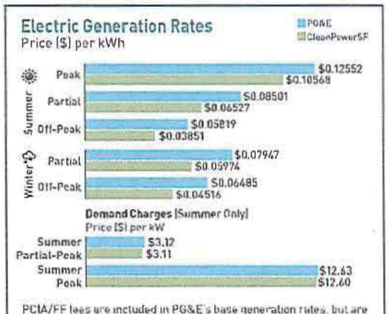

PCIA/FF fees are included in PG&E's base generation rates, but are charged separately for CleanPowerSF and Solar Choice customers.

Chart is for illustrative purposes only and is not to scale.

Electric Power Generation Mix*	PG&E	PG&E Solar Choice	CleanPowerSF Green	CleanPowerSF SuperGreen
Specific Purchases	Percent of Total Retail Sales (kWh)			
Renewable	33%	100%	40%	100%
• Biomass & Biowaste	4%	0%	0%	0%
• Geothermal	5%	0%	0%	0%
• Eligible Hydroelectric	3%	0%	0%	0%
• Solar Electric	13%	100%	0%	0%
• Wind	8%	0%	40%	100%
Coal	0%	0%	0%	0%
Large Hydroelectric	12%	0%	38%	0%
Natural Gas	17%	0%	22%	0%
Nuclear	24%	0%	0%	0%
Other	0%	0%	0%	0%
Unspecified Sources of Power	14%	0%	0%	0%
TOTAL	100%	100%	100%	100%

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2018 Residential Rate Comparison, E-1*

	PG&E	PG&E Solar Choice (100% Renewable)	CleanPowerSF Green (43% Renewable)	CleanPowerSF SuperGreen (100% Renewable)
Generation Rate ($/kWh)	$0.10780	$0.09436	$0.07163	$0.08663
PG&E Delivery Rate ($/kWh)	$0.13212	$0.13212	$0.13212	$0.13212
PG&E PCIA/FF ($/kWh)	N/A	$0.03346	$0.03401	$0.03401
Total Electricity Cost ($/kWh)	$0.23992	$0.25994	$0.23776	$0.25276
Average Monthly Bill ($)	**$66.46**	**$72.00**	**$65.86**	**$70.01**

*This compares electricity costs for an average residential customer in the CleanPowerSF/PG&E service area with an average monthly usage of 277 kilowatt-hours (kWh). This is based on a representative 12-month billing history for all customers on E-1 rate schedules for PG&E's and CleanPowerSF's published rates as of July 1, 2018.

Generation Rate is the cost of creating electricity to power your home. The generation rate varies based on your energy provider and the resources included in your energy provider's generation supply.

PG&E Delivery Rate is a charge assessed by PG&E to deliver electricity to your home. The PG&E delivery rate depends on your electricity usage, but is charged equally to both CleanPowerSF and PG&E customers.

PG&E PCIA/FF represents the Power Charge Indifference Adjustment (PCIA) and the Franchise Fee surcharge (FF). The PCIA is a charge to recover PG&E's above-market costs for generation resources acquired prior to a customer's switch to a third-party electric generation provider. The PCIA also applies to PG&E customers that elect to take service under PG&E's optional Solar Choice program. PG&E acts as a collection agent for the FF surcharge, which is levied by the California Public Utilities Commission (CPUC) on behalf of cities and counties in PG&E's service territory for all customers. The costs for resources included in the PCIA and FF surcharges are included in the generation rate for PG&E bundled service customers. The PCIA is currently being reviewed by the CPUC and the methodology is subject to change. A final decision is expected later in 2018.

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Electric Power Generation Mix*

Specific Purchases	PG&E	PG&E Solar Choice	CleanPowerSF Green	CleanPowerSF SuperGreen
	Percent of Total Retail Sales (kWh)			
Renewable	33%	100%	43%	100%
• Biomass & Biowaste	4%	0%	0%	0%
• Geothermal	5%	0%	0%	0%
• Eligible Hydroelectric	3%	0%	0%	0%
• Solar Electric	13%	100%	3%	1%
• Wind	8%	0%	40%	99%
Coal	0%	0%	0%	0%
Large Hydroelectric	18%	0%	57%	0%
Natural Gas	20%	0%	0%	0%
Nuclear	27%	0%	0%	0%
Other	0%	0%	0%	0%
Unspecified Sources of Power**	2%	0%	0%	0%
TOTAL	**100%**	**100%**	**100%**	**100%**

*As reported to the California Energy Commission's Power Source Disclosure Program excluding voluntary unbundled renewable energy credits. PG&E data is subject to an independent audit and verification that will not be completed until October 1, 2018. The figures above may not sum up to 100 percent due to rounding.

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Understanding your energy choice

2018 Commercial Rate Comparison, A-1 TOU*

	PG&E	PG&E Solar Choice (100% Renewable)	CleanPowerSF Green (43% Renewable)	CleanPowerSF SuperGreen (100% Renewable)
Generation Rate ($/kWh)	$0.10696	$0.09049	$0.07954	$0.08954
PG&E Delivery Rate ($/kWh)	$0.12881	$0.12881	$0.12881	$0.12881
PG&E PCIA/FF ($/kWh)	N/A	$0.02466	$0.02528	$0.02528
Total Electricity Cost ($/kWh)	$0.23577	$0.24396	$0.23363	$0.24363
Average Monthly Bill ($)	**$345.17**	**$357.16**	**$342.03**	**$356.67**

*This compares electricity costs for an average small commercial time-of-use (TOU) customer in the CleanPowerSF/PG&E service area with an average monthly usage of 1,464 kilowatt-hours (kWh). This is based on a representative 12-month billing history for all customers on A-1 TOU rate schedules for PG&E's and CleanPowerSF's published rates as of July 1, 2018.

Generation Rate is the cost of creating electricity to power your business. The generation rate varies based on your energy provider and the resources included in your energy provider's generation supply.

PG&E Delivery Rate is a charge assessed by PG&E to deliver electricity to your business. The PG&E delivery rate depends on your electricity usage, but is charged equally to both CleanPowerSF and PG&E customers.

PG&E PCIA/FF represents the Power Charge Indifference Adjustment (PCIA) and the Franchise Fee surcharge (FF). The PCIA is a charge to recover PG&E's above-market costs for generation resources acquired prior to a customer's switch to a third-party electric generation provider. The PCIA also applies to PG&E customers that elect to take service under PG&E's optional Solar Choice program. PG&E acts as a collection agent for the FF surcharge, which is levied by the California Public Utilities Commission (CPUC) on behalf of cities and counties in PG&E's service territory for all customers. The costs for resources included in the PCIA and FF surcharges are included in the generation rate for PG&E bundled service customers. The PCIA is currently being reviewed by the CPUC and the methodology is subject to change. A final decision is expected later in 2018.

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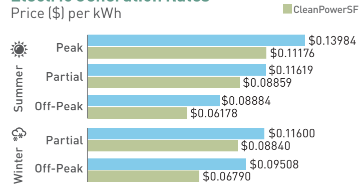
Electric Generation Rates

Price ($) per kWh



PCIA/FF fees are included in PG&E's base generation rates, but are charged separately for CleanPowerSF and Solar Choice customers.

Chart is for illustrative purposes only and is not to scale.

Electric Power Generation Mix*

Specific Purchases	PG&E	PG&E Solar Choice	CleanPowerSF Green	CleanPowerSF SuperGreen
	Percent of Total Retail Sales (kWh)			
Renewable	33%	100%	43%	100%
• Biomass & Biowaste	4%	0%	0%	0%
• Geothermal	5%	0%	0%	0%
• Eligible Hydroelectric	3%	0%	0%	0%
• Solar Electric	13%	100%	3%	1%
• Wind	8%	0%	40%	99%
Coal	0%	0%	0%	0%
Large Hydroelectric	18%	0%	57%	0%
Natural Gas	20%	0%	0%	0%
Nuclear	27%	0%	0%	0%
Other	0%	0%	0%	0%
Unspecified Sources of Power**	2%	0%	0%	0%
TOTAL	**100%**	**100%**	**100%**	**100%**

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Understanding your energy choice

2018 Commercial Rate Comparison, A-10S TOU*

	PG&E	PG&E Solar Choice (100% Renewable)	CleanPowerSF Green (43% Renewable)	CleanPowerSF SuperGreen (100% Renewable)
Generation Rate ($/kWh)	$0.11113	$0.08648	$0.08322	$0.08822
PG&E Delivery Rate ($/kWh)	$0.09530	$0.09530	$0.09530	$0.09530
PG&E PCIA/FF ($/kWh)	N/A	$0.02502	$0.02568	$0.02568
Total Electricity Cost ($/kWh)	$0.20643	$0.20680	$0.20420	$0.20920
Average Monthly Bill ($)	**$3,122.05**	**$3,127.64**	**$3,088.32**	**$3,163.94**

*This compares electricity costs for an average medium commercial time-of-use (TOU) customer in the CleanPowerSF/PG&E service area with an average monthly demand of 45 kW and an average monthly usage of 15,124 kilowatt-hours (kWh). This is based on a representative 12-month billing history for all customers on A-10S TOU rate schedules for PG&E's and CleanPowerSF's published rates as of July 1, 2018.

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PG&E Delivery Rate is a charge assessed by PG&E to deliver electricity to your business. The PG&E delivery rate depends on your electricity usage, but is charged equally to both CleanPowerSF and PG&E customers.

PG&E PCIA/FF represents the Power Charge Indifference Adjustment (PCIA) and the Franchise Fee surcharge (FF). The PCIA is a charge to recover PG&E's above-market costs for generation resources acquired prior to a customer's switch to a third-party electric generation provider. The PCIA also applies to PG&E customers that elect to take service under PG&E's optional Solar Choice program. PG&E acts as a collection agent for the FF surcharge, which is levied by the California Public Utilities Commission (CPUC) on behalf of cities and counties in PG&E's service territory for all customers. The costs for resources included in the PCIA and FF surcharges are included in the generation rate for PG&E bundled service customers. The PCIA is currently being reviewed by the CPUC and the methodology is subject to change. A final decision is expected later in 2018.

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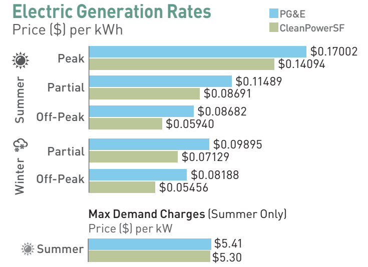
Electric Generation Rates



PCIA/FF fees are included in PG&E's base generation rates, but are charged separately for CleanPowerSF and Solar Choice customers.

Chart is for illustrative purposes only and is not to scale.

Electric Power Generation Mix*

Specific Purchases	PG&E	PG&E Solar Choice	CleanPowerSF Green	CleanPowerSF SuperGreen
	Percent of Total Retail Sales (kWh)			
Renewable	33%	100%	43%	100%
• Biomass & Biowaste	4%	0%	0%	0%
• Geothermal	5%	0%	0%	0%
• Eligible Hydroelectric	3%	0%	0%	0%
• Solar Electric	13%	100%	3%	1%
• Wind	8%	0%	40%	99%
Coal	0%	0%	0%	0%
Large Hydroelectric	18%	0%	57%	0%
Natural Gas	20%	0%	0%	0%
Nuclear	27%	0%	0%	0%
Other	0%	0%	0%	0%
Unspecified Sources of Power	2%	0%	0%	0%
TOTAL	**100%**	**100%**	**100%**	**100%**

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2018 Commercial Rate Comparison, E-19S*

	PG&E	PG&E Solar Choice (100% Renewable)	CleanPowerSF Green (43% Renewable)	CleanPowerSF SuperGreen (100% Renewable)
Generation Rate ($/kWh)	$0.10715	$0.09112	$0.08336	$0.08836
PG&E Delivery Rate ($/kWh)	$0.07918	$0.07918	$0.07918	$0.07918
PG&E PCIA/FF ($/kWh)	N/A	$0.02104	$0.02165	$0.02165
Total Electricity Cost ($/kWh)	$0.18633	$0.19134	$0.18419	$0.18919
Average Monthly Bill ($)	**$48,988.02**	**$50,305.20**	**$48,425.39**	**$49,739.94**

*This compares electricity costs for an average large commercial customer in the CleanPowerSF/PG&E service area with an average monthly demand of 662 kW and an average monthly usage of 262,910 kilowatt-hours (kWh). This is based on a representative 12-month billing history for all customers on E-19S rate schedules for PG&E's and CleanPowerSF's published rates as of July 1, 2018.

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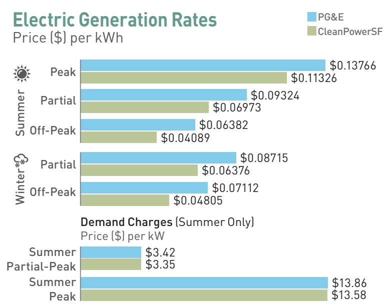
Electric Generation Rates

Price ($) per kWh



PCIA/FF fees are included in PG&E's base generation rates, but are charged separately for CleanPowerSF and Solar Choice customers.

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Electric Power Generation Mix*

Specific Purchases	PG&E	PG&E Solar Choice	CleanPowerSF Green	CleanPowerSF SuperGreen
	Percent of Total Retail Sales (kWh)			
Renewable	33%	100%	43%	100%
• Biomass & Biowaste	4%	0%	0%	0%
• Geothermal	5%	0%	0%	0%
• Eligible Hydroelectric	3%	0%	0%	0%
• Solar Electric	13%	100%	3%	1%
• Wind	8%	0%	40%	99%
Coal	0%	0%	0%	0%
Large Hydroelectric	18%	0%	57%	0%
Natural Gas	20%	0%	0%	0%
Nuclear	27%	0%	0%	0%
Other	0%	0%	0%	0%
Unspecified Sources of Power	2%	0%	0%	0%
TOTAL	**100%**	**100%**	**100%**	**100%**

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Attachment D: CleanPowerSF-PG&E Joint Rate Web Comparison (2017)

E1	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.09838	$0.09529	$0.06836	$0.08836
PG&E Delivery Rate ($/kWh)	$0.13245	$0.13245	$0.13245	$0.13245
PG&E PCIA/FF ($/kWh)	N/A	$0.02919	$0.02970	$0.02970
Total Electricity Cost ($/kWh)	$0.23083	$0.25693	$0.23051	$0.25051
Average Monthly Bill ($)	$64.88	$72.21	$64.79	$70.41

E1L	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.09838	$0.09529	$0.06836	$0.08836
PG&E Delivery Rate ($/kWh)	$0.04151	$0.04151	$0.04151	$0.04151
PG&E PCIA/FF ($/kWh)	N/A	$0.02919	$0.02970	$0.02970
Total Electricity Cost ($/kWh)	$0.13989	$0.16599	$0.13957	$0.15957
Average Monthly Bill ($)	$39.25	$46.58	$39.16	$44.77

E6	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.09250	$0.08941	$0.05868	$0.07868
PG&E Delivery Rate ($/kWh)	$0.12858	$0.12858	$0.12858	$0.12858
PG&E PCIA/FF ($/kWh)	N/A	$0.02919	$0.02970	$0.02970
Total Electricity Cost ($/kWh)	$0.22108	$0.24718	$0.21696	$0.23696
Average Monthly Bill ($)	$64.78	$72.42	$63.57	$69.43

E6L	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.09308	$0.08999	$0.05941	$0.07941
PG&E Delivery Rate ($/kWh)	$0.04931	$0.04931	$0.04931	$0.04931
PG&E PCIA/FF ($/kWh)	N/A	$0.02919	$0.02970	$0.02970
Total Electricity Cost ($/kWh)	$0.14239	$0.16849	$0.13842	$0.15842
Average Monthly Bill ($)	$44.81	$53.02	$43.56	$49.85

ETOUA	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.09283	$0.08974	$0.06283	$0.08283
PG&E Delivery Rate ($/kWh)	$0.11357	$0.11357	$0.11357	$0.11357
PG&E PCIA/FF ($/kWh)	N/A	$0.02919	$0.02970	$0.02970
Total Electricity Cost ($/kWh)	$0.20640	$0.23250	$0.20610	$0.22610
Average Monthly Bill ($)	$39.50	$44.50	$39.44	$43.27

ETOUB	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.09285	$0.08976	$0.06285	$0.08285
PG&E Delivery Rate ($/kWh)	$0.13917	$0.13917	$0.13917	$0.13917
PG&E PCIA/FF ($/kWh)	N/A	$0.02919	$0.02970	$0.02970
Total Electricity Cost ($/kWh)	$0.23202	$0.25812	$0.23172	$0.25172
Average Monthly Bill ($)	$57.96	$64.48	$57.88	$62.88

EVA	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.08348	$0.08039	$0.05350	$0.07350
PG&E Delivery Rate ($/kWh)	$0.11859	$0.11859	$0.11859	$0.11859
PG&E PCIA/FF ($/kWh)	N/A	$0.02919	$0.02970	$0.02970
Total Electricity Cost ($/kWh)	$0.20207	$0.22817	$0.20179	$0.22179
Average Monthly Bill ($)	$197.55	$223.07	$197.28	$216.83

EVB	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.07258	$0.06949	$0.04263	$0.06263
PG&E Delivery Rate ($/kWh)	$0.09495	$0.09495	$0.09495	$0.09495
PG&E PCIA/FF ($/kWh)	N/A	$0.02919	$0.02970	$0.02970
Total Electricity Cost ($/kWh)	$0.16753	$0.19363	$0.16728	$0.18728
Average Monthly Bill ($)	$41.29	$47.72	$41.22	$46.15

A1	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.09733	$0.09205	$0.07447	$0.08847
PG&E Delivery Rate ($/kWh)	$0.13100	$0.13100	$0.13100	$0.13100
PG&E PCIA/FF ($/kWh)	N/A	$0.02199	$0.02256	$0.02256
Total Electricity Cost ($/kWh)	$0.22833	$0.24504	$0.22803	$0.24203
Average Monthly Bill ($)	$358.60	$384.85	$358.14	$380.12

A10S	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.10020	$0.09257	$0.07674	$0.09074
PG&E Delivery Rate ($/kWh)	$0.09732	$0.09732	$0.09732	$0.09732
PG&E PCIA/FF ($/kWh)	N/A	$0.02252	$0.02311	$0.02311
Total Electricity Cost ($/kWh)	$0.19752	$0.21241	$0.19717	$0.21117
Average Monthly Bill ($)	$3,055.82	$3,286.26	$3,050.47	$3,267.07

A10SX	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.09924	$0.09161	$0.07579	$0.08979
PG&E Delivery Rate ($/kWh)	$0.09656	$0.09656	$0.09656	$0.09656
PG&E PCIA/FF ($/kWh)	N/A	$0.02252	$0.02311	$0.02311
Total Electricity Cost ($/kWh)	$0.19580	$0.21069	$0.19546	$0.20946
Average Monthly Bill ($)	$2,962.16	$3,187.43	$2,957.02	$3,168.82

A1X	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.09799	$0.09270	$0.07509	$0.08909
PG&E Delivery Rate ($/kWh)	$0.13242	$0.13242	$0.13242	$0.13242
PG&E PCIA/FF ($/kWh)	N/A	$0.02199	$0.02256	$0.02256
Total Electricity Cost ($/kWh)	$0.23041	$0.24711	$0.23007	$0.24407
Average Monthly Bill ($)	$335.17	$359.47	$334.68	$355.05

A6	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.10923	$0.10395	$0.08631	$0.10031
PG&E Delivery Rate ($/kWh)	$0.12812	$0.12812	$0.12812	$0.12812
PG&E PCIA/FF ($/kWh)	N/A	$0.02199	$0.02256	$0.02256
Total Electricity Cost ($/kWh)	$0.23735	$0.25406	$0.23699	$0.25099
Average Monthly Bill ($)	$790.04	$845.67	$788.85	$835.45

E19S	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.09635	$0.09445	$0.07658	$0.09058
PG&E Delivery Rate ($/kWh)	$0.08175	$0.08175	$0.08175	$0.08175
PG&E PCIA/FF ($/kWh)	N/A	$0.01888	$0.01944	$0.01944
Total Electricity Cost ($/kWh)	$0.17810	$0.19508	$0.17777	$0.19177
Average Monthly Bill ($)	$46,012.98	$50,400.71	$45,928.51	$49,545.54

E19SV	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.09080	$0.08890	$0.07104	$0.08504
PG&E Delivery Rate ($/kWh)	$0.07741	$0.07741	$0.07741	$0.07741
PG&E PCIA/FF ($/kWh)	N/A	$0.01888	$0.01944	$0.01944
Total Electricity Cost ($/kWh)	$0.16821	$0.18519	$0.16789	$0.18189
Average Monthly Bill ($)	$5,000.46	$5,505.39	$4,991.09	$5,407.28

E20P	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.08489	$0.09197	$0.06729	$0.08129
PG&E Delivery Rate ($/kWh)	$0.06236	$0.06236	$0.06236	$0.06236
PG&E PCIA/FF ($/kWh)	N/A	$0.01680	$0.01732	$0.01732
Total Electricity Cost ($/kWh)	$0.14725	$0.17113	$0.14697	$0.16097
Average Monthly Bill ($)	$206,964.89	$240,535.33	$206,576.74	$226,254.74

E20S	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.09063	$0.09383	$0.07167	$0.08567
PG&E Delivery Rate ($/kWh)	$0.07940	$0.07940	$0.07940	$0.07940
PG&E PCIA/FF ($/kWh)	N/A	$0.01812	$0.01864	$0.01864
Total Electricity Cost ($/kWh)	$0.17003	$0.19135	$0.16971	$0.18371
Average Monthly Bill ($)	$122,464.94	$137,817.68	$122,231.72	$132,315.06

LS3	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.07997	$0.09160	$0.07489	$0.08889
PG&E Delivery Rate ($/kWh)	$0.09951	$0.09951	$0.09951	$0.09951
PG&E PCIA/FF ($/kWh)	N/A	$0.00423	$0.00479	$0.00479
Total Electricity Cost ($/kWh)	$0.17948	$0.19534	$0.17919	$0.19319
Average Monthly Bill ($)	$51.90	$56.49	$51.82	$55.86

TC1	PG&E	PG&E SolarChoice	CPSF	CPSF Extra Renewable
Generation Rate ($/kWh)	$0.08678	$0.08150	$0.06393	$0.07793
PG&E Delivery Rate ($/kWh)	$0.14944	$0.14944	$0.14944	$0.14944
PG&E PCIA/FF ($/kWh)	N/A	$0.02199	$0.02256	$0.02256
Total Electricity Cost ($/kWh)	$0.23622	$0.25293	$0.23593	$0.24993
Average Monthly Bill ($)	$45.55	$48.77	$45.49	$48.19

Annual Program Costs

As noted above, CleanPowerSF completed its second full fiscal year of operations on June 30th, 2018 (FY 2017-18). On January 25, 2019, the PUC published its audited Fiscal Year 2017-18 financial reports, which include a summary of CleanPowerSF revenues and expenses.[2] A summary of CleanPowerSF revenues and expenses for FY 2016-17 and FY 2017-18 is provided in Table 2 below.

Table 2: Summary of CleanPowerSF Revenues and Expenses

Item	FY 2016-17 ($, In Thousands)	FY 2017-18 ($, In Thousands)
Operating Revenues	33,867	39,568
Non-Operating Revenues	93	175
Total Expenses	(27,166)	(38,529)
Change in Net Position	6,794	1,214
Net Position at Beginning of Year	1,424	7,646
Net Position at End of Year	8,218	8,860

CleanPowerSF Rates and Comparison to PG&E Rates

Ordinance 223-15 also requires the PUC to report on CleanPowerSF's rates and how those rates compare with PG&E's generation rates. FY 2017-18 was unique from the previous fiscal year in that CleanPowerSF changed its rates on March 1, 2018, three quarters of the way through the fiscal year. Through a rate action, CleanPowerSF adjusted rates to remain competitive with PG&E. Adopted CleanPowerSF rates tables effective July 1, 2017 and March 1, 2018 have been provided as attachments to this memo for your reference.

In addition, pursuant to Senate Bill 790 (Leno) and California Public Utilities Commission Decision 12-12-036, each July CleanPowerSF and PG&E publish a joint rate comparison. A "Joint Rate Mailer" is sent each year to all enrolled CleanPowerSF customers and joint rate comparisons for each customer type served by CleanPowerSF are published both on CleanPowerSF's and PG&E's websites. The Joint Rate Mailers sent to CleanPowerSF customers in July of 2017 are attached to this memo for your review and reference.

Table 3 below shows the joint rate comparison published and mailed to CleanPowerSF residential customers on the standard E-1 rates schedule in July 2017. The comparison shows that CleanPowerSF offered residential customers a competitively priced product with more renewable energy than PG&E's default product.

[2] The Hetch Hetchy Water and Power and CleanPowerSF Report for FY 17-18 may be found at: https://sfwater.org/modules/showdocument.aspx?documentid=13382

Table 3: Residential (E-1) Joint Rate Comparison (as of July 1, 2017)

E-1 (Residential Flat Rate)	**PG&E Default Product (33% Renewable)**	**CleanPowerSF *Green* (43% Renewable)**	**CleanPowerSF *SuperGreen* (100% Renewable)**	**PG&E Solar Choice (100% Renewable)**
Generation Rate ($/kWh)	$0.09838	$0.06836	$0.088336	$0.09529
PG&E Delivery Rate ($/kWh)	$0.13250	$0.13250	$0.13250	$0.13250
PG&E PCIA/ FFS ($/kWh)	N/A	$0.02977	$0.02977	$0.02919
Total Electricity Cost ($/kWh)	$0.23088	$0.23063	$0.25063	$0.25698
Average Monthly Bill ($)	$64.70	$64.63	$70.24	$71.95

This table compares electricity costs for a typical residential customer in the CleanPowerSF /PG&E service area with an average monthly usage of 280 kilowatt-hours (kWh). The Average Monthly Bill amounts are based on the most recent 12-month billing history for all customers on E-1 rate schedules for PG&E's and CPSF's published rates effective July 1, 2017.

The tables show that CleanPowerSF *Green* rates were significantly lower than PG&E's ($0.06836 per kilowatt-hour CleanPowerSF as compared to $0.09838 per kilowatt-hour for PG&E). The lower CleanPowerSF rates helped absorb the Power Charge Indifference Adjustment (PCIA) fee that CleanPowerSF and other CCA customers are required to pay PG&E for the "above market" costs of its electricity supply. As illustrated by this rate comparison, after accounting for the PCIA and other fees PG&E charges CCA customers, the net cost of the average residential customer in San Francisco taking CleanPowerSF *Green* service was slightly less than the cost of PG&E's default product. In addition, the cost of taking service under CleanPowerSF's *SuperGreen* 100% renewable product was $1.71 less per month than the cost of PG&E's Solar Choice (100% renewable).

Attachments

A. Hetch Hetchy Water and Power and CleanPowerSF Audited Financial Statements for FY 2017-2018 (Annual Program Costs)
B. CleanPowerSF Rates Tables for Rates Effective July 1, 2017 and March 1, 2018
C. CleanPowerSF-PG&E Joint Rate Mailers (2017 and 2018)
D. CleanPowerSF-PG&E Joint Rate Comparison (2017)

BOS-11

STATE OF CALIFORNIA
Gavin Newsom, Governor

Fish and Game Commission

Wildlife Heritage and Conservation
Since 1870

Melissa Miller-Henson
Acting Executive Director
P.O. Box 944209
Sacramento, CA 94244-2090
(916) 653-4899
fgc@fgc.ca.gov
www.fgc.ca.gov

2019 FEB 22 PM 3:28

February 20, 2019

TO ALL AFFECTED AND INTERESTED PARTIES:

This is to provide you with a Notice of Findings regarding the petition to list Upper Klamath-Trinity River spring Chinook salmon as endangered under the California Endangered Species Act. This notice will be published in the California Regulatory Notice Register on February 22, 2019.

Sincerely,

Sheri Tiemann

Sheri Tiemann
Associate Governmental Program Analyst

Attachment

California Natural Resources Building
1416 Ninth Street, Room 1320, Sacramento, California 95814

STATE OF CALIFORNIA
Gavin Newsom, Governor

Fish and Game Commission

Wildlife Heritage and Conservation
Since 1870

Melissa Miller-Henson
Acting Executive Director
P.O. Box 944209
Sacramento, CA 94244-2090
(916) 653-4899
fgc@fgc.ca.gov
www.fgc.ca.gov

2019 FEB 22 PM 3:36

CALIFORNIA FISH AND GAME COMMISSION NOTICE OF FINDINGS

Upper Klamath-Trinity River spring Chinook salmon (*Oncorhynchus tshawytscha*)

NOTICE IS HEREBY GIVEN that, pursuant to the provisions of Section 2074.2 of the Fish and Game Code, the California Fish and Game Commission (Commission), at its February 6, 2019, meeting in Sacramento, California, accepted for consideration the petition submitted to list Upper Klamath-Trinity River spring Chinook salmon as an endangered species. Pursuant to subdivision (e)(2) of Section 2074.2 of the Fish and Game Code, the Commission determined that the amount of information contained in the petition, when considered in light of the Department of Fish and Wildlife's (DFW) written evaluation report, the comments received, and the remainder of the administrative record, would lead a reasonable person to conclude there is a substantial possibility the requested listing could occur.

Based on that finding and the acceptance of the petition, the Commission is also providing notice that the Upper Klamath-Trinity River spring Chinook salmon is a candidate species as defined by Section 2068 of the Fish and Game Code.

Within one year of the date of publication of this notice of findings, the Department shall submit a written report, pursuant to Section 2074.6 of the Fish and Game Code, indicating whether the petitioned action is warranted. Copies of the petition, as well as minutes of the February 6, 2019 Commission meeting, are on file and available for public review from Melissa Miller-Henson, Acting Executive Director, Commission, 1416 Ninth Street, Room 1320, Sacramento, California 95814, phone (916) 653-4899. Written comments or data related to the petitioned action should be directed to the Commission at P.O. Box 944209, Sacramento, CA 94244-2090 or email FGC@fgc.ca.gov.

Fish and Game Commission

February 12, 2019

Melissa Miller-Henson
Acting Executive Director

From: Board of Supervisors, (BOS)
To: BOS-Supervisors
Subject: FW: Important ACP Notice for San Francisco, San Francisco County Find 02, February 21, 2019.
Date: Tuesday, February 26, 2019 9:48:00 AM
Attachments: ACP-NOT-SanFranciscoCountyFind02_2019-02Feb21sign_ADA.pdf
Importance: High

From: Gordon, Jennifer@CDFA <jennifer.gordon@cdfa.ca.gov>
Sent: Friday, February 22, 2019 2:12 PM
To: Fowler, Kent@CDFA <kent.fowler@cdfa.ca.gov>; Lyle, Steve@CDFA <steve.lyle@cdfa.ca.gov>; Leathers, Jason@CDFA <jason.leathers@cdfa.ca.gov>; Condos, Nick@CDFA <nick.condos@cdfa.ca.gov>; Lester Moffitt, Jenny@CDFA <Jenny.LesterMoffitt@cdfa.ca.gov>; Pegos, David@CDFA <david.pegos@cdfa.ca.gov>; Krout, Natalie@CDFA <natalie.krout@cdfa.ca.gov>; Eastman, Hyrum@CDFA <hyrum.eastman@cdfa.ca.gov>; Hornbaker, Victoria@CDFA <victoria.hornbaker@cdfa.ca.gov>; Thimmayya, Ned@CDFA <Ned.Thimmayya@cdfa.ca.gov>; Roschen, Taylor@CDFA <taylor.roschen@cdfa.ca.gov>; Davis, Cassandra@CDFA <cassandra.davis@cdfa.ca.gov>; Serrano, Lisa@CDFA <lisa.serrano@cdfa.ca.gov>; Luna, Bob@CDFA <bob.luna@cdfa.ca.gov>; Galindo, Tina@CDFA <TGalindo@cdfa.ca.gov>; Leclerc, Raymond@CDFA <Raymond.Leclerc@cdfa.ca.gov>; Richards, Andrew@CDFA <Andrew.Richards@cdfa.ca.gov>; Farnum, Sean@CDFA <sean.farnum@cdfa.ca.gov>; Luque-Williams, Magally@CDFA <magally.luque-williams@cdfa.ca.gov>; Khalid, Sara@CDFA <Sara.Khalid@cdfa.ca.gov>; Oriel, Michel@CDPR <Michel.Oriel@cdpr.ca.gov>; Yanga, Nino@CDPR <Nino.Yanga@cdpr.ca.gov>; pispillness@CDPR <pispillness@cdpr.ca.gov>; Materna, Barbara@CDPH <Barbara.Materna@cdph.ca.gov>; Beucke, Kyle@CDFA <Kyle.Beucke@cdfa.ca.gov>; Weinberg, Justine@CDPH <Justine.Weinberg@cdph.ca.gov>; CDPHPress (OPA) <CDPHPressOPA@cdph.ca.gov>; Hutzel, Michelle@EPA <Michelle.Hutzel@calepa.ca.gov>; Ting, David@OEHHA <David.Ting@oehha.ca.gov>; Hirsch, Allan@OEHHA <Allan.Hirsch@oehha.ca.gov>; Burns, Gordon@EPA <Gordon.Burns@calepa.ca.gov>; Lim, Lori@OEHHA <Lori.Lim@oehha.ca.gov>; Arcus, Amy@OEHHA <Amy.Arcus@oehha.ca.gov>; Woods, Rima@OEHHA <Rima.Woods@oehha.ca.gov>; Eya, Bryan@OEHHA <Bryan.Eya@oehha.ca.gov>; estrada.fabiola@epa.gov; jenny_marek@fws.gov; Vance, Julie@Wildlife <Julie.Vance@wildlife.ca.gov>; helene.r.wright@aphis.usda.gov; Barbara.e.maehler@aphis.usda.gov; mak@nstpr.com; tm@nstpr.com; tecoloteIPM@gmail.com; David.A.Bergsten@aphis.usda.gov; Amy.w.shalom@aphis.usda.gov; Fell, Evonne@CDFA <Evonne.Fell@cdfa.ca.gov>; Kim, Dave@CDPR <Dave.Kim@cdpr.ca.gov>; Okasaki, Keith@CDFA <Keith.Okasaki@cdfa.ca.gov>; Okimoto, Darrin@CDFA <darrin.okimoto@cdfa.ca.gov>; Farsimadan, Afrooz@Waterboards <Afrooz.Farsimadan@Waterboards.ca.gov>; Martinez, Armando@Waterboards <Armando.Martinez@Waterboards.ca.gov>; Cline, Andrew@CDFA <andrew.cline@cdfa.ca.gov>; Spencer, Roger@CDFA <roger.spencer@cdfa.ca.gov>; Hatler, Gerald@Wildlife <Gerald.Hatler@wildlife.ca.gov>; Shadle, Joshua@Wildlife <Joshua.Shadle@wildlife.ca.gov>; katie_zeeman@fws.gov; Betschart, Peter@CDFA <Peter.Betschart@cdfa.ca.gov>; Buan, Mark@CDFA <Mark.Buan@cdfa.ca.gov>; bobatkinsagwm@gmail.com; CDFA_DL_Permits <Permits@cdfa.ca.gov>; Moore, Becky@CDFA <Becky.Moore@cdfa.ca.gov>; Escobar, Alice@CDFA <alice.escobar@cdfa.ca.gov>; Nistor,

AnaMaria@CDFA <AnaMaria.Nistor@cdfa.ca.gov>; Gutierrez, Antonio@CDFA <antonio.gutierrez@cdfa.ca.gov>; Arellano, Vince@CDFA <vince.arellano@cdfa.ca.gov>; Tariq, Athar@CDFA <athar.tariq@cdfa.ca.gov>; Napolillo, Dayna@CDFA <Dayna.Napolillo@cdfa.ca.gov>; Murphy, Deborra@CDFA <deborra.murphy@cdfa.ca.gov>; Gaimari, Stephen@CDFA <stephen.gaimari@cdfa.ca.gov>; Hauser, Martin@CDFA <martin.hauser@cdfa.ca.gov>; VanDyke, Jennifer@CDFA <Jennifer.VanDyke@cdfa.ca.gov>; Kress, Joshua@CDFA <joshua.kress@cdfa.ca.gov>; Morris, Keith@CDFA <keith.morris@cdfa.ca.gov>; Kelch, Dean@CDFA <dean.kelch@cdfa.ca.gov>; Kerr, Peter@CDFA <peter.kerr@cdfa.ca.gov>; Kodira, Umesh@CDFA <Umesh.Kodira@cdfa.ca.gov>; War, Mamadou@CDFA <mamadou.war@cdfa.ca.gov>; Krick, Margarete@CDFA <margarete.krick@cdfa.ca.gov>; Kaiser, Matt@CDFA <Matthew.Kaiser@cdfa.ca.gov>; Richmond, Dana@CDFA <dana.richmond@cdfa.ca.gov>; Sharma, Nawal@CDFA <nawal.sharma@cdfa.ca.gov>; So, Song@CDFA <song.so@cdfa.ca.gov>; Lee, Cheolmin@CDFA <Cheolmin.Lee@cdfa.ca.gov>; Van Rein, Jay@CDFA <jay.vanrein@cdfa.ca.gov>; CDFA_DL_Permits <Permits@cdfa.ca.gov>; Lopez-Zuniga, Abraham@CDFA <Abraham.Lopez-Zuniga@cdfa.ca.gov>; Sison, Arlene@CDFA <Arlene.Sison@cdfa.ca.gov>; Gray, Cindy@CDFA <cindy.gray@cdfa.ca.gov>; Winterton, Shaun@CDFA <shaun.winterton@cdfa.ca.gov>; Arellano, Vince@CDFA <vince.arellano@cdfa.ca.gov>; Irons, Laura@CDFA <laura.irons@cdfa.ca.gov>; Rung, Alessandra@CDFA <alessandra.rung@cdfa.ca.gov>; Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>; Somera, Alisa (BOS) <alisa.somera@sfgov.org>; Major, Erica (BOS) <erica.major@sfgov.org>; Morgan, Cree (DPH) <cree.morgan@sfdph.org>; Zuniga, Clodoaldo (DPH) <clodoaldo.zuniga@sfdph.org>; Lino, Rhodora (DPH) <Rhodora.Lino@sfdph.org>; DPH-San Francisco Agriculture and PUE program <SFAgriculture@sfdph.org>; senator.mcguire@senate.ca.gov; senator.wiener@senate.ca.gov; assemblymember.levine@assembly.ca.gov; assemblymember.chiu@assembly.ca.gov; will.shuck@asm.ca.gov; melissa.apuya@asm.ca.gov; Judson.True@asm.ca.gov; lourdes.machado@asm.ca.gov; Tom.Paulino@asm.ca.gov; Jennifer.Kwart@asm.ca.gov; Building Management, City Hall (ADM) <city.hall.building.management@sfgov.org>; Desanti, Cheryl (MYR) <desantic@sfusd.edu>; BlytheG@sfusd.edu; DickeyL@sfusd.edu; Fong, Ryan@CDFA <Ryan.Fong@cdfa.ca.gov>; Jacobs, Stephanie@CDFA <Stephanie.Jacobs@cdfa.ca.gov>
Subject: Important ACP Notice for San Francisco, San Francisco County Find 02, February 21, 2019.
Importance: High

Good day everyone,

Please see the attached Notice of Treatment San Francisco, San Francisco County Find 02, February 21, 2019.
https://www.cdfa.ca.gov/plant/acp/treatment_maps.html#maps

If you are not the contact for this notice, please forward the attachment to the intended recipient.

Thank you,

Jennifer Gordon
Pest Detection/ Emergency Projects
2800 Gateway Oaks Dr.
Sacramento, CA 95833
Main: 916-654-1211
Direct: 916-403-6814
Fax: 916-654-0555
jennifer.gordon@cdfa.ca.gov

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

OFFICIAL NOTICE
FOR SAN FRANCISCO, SAN FRANCISCO COUNTY
PLEASE READ IMMEDIATELY

THE NOTICE OF TREATMENT FOR THE ASIAN CITRUS PSYLLID

On February 8, 2019, the California Department of Food and Agriculture (CDFA) confirmed the presence of Asian citrus psyllid (ACP), *Diaphorina citri* Kuwayama, a harmful exotic pest, in the city of San Francisco, San Francisco County. This detection indicates that a breeding population exists in the area. The devastating citrus disease Huanglongbing (HLB) is spread by the feeding action of ACP. The ACP infestation is sufficiently isolated and localized to be amenable to the CDFA's ACP treatment work plan.

A Program Environmental Impact Report (PEIR) has been certified which analyzes the ACP treatment program in accordance with Public Resources Code, Sections 21000 et seq. The PEIR is available at http://www.cdfa.ca.gov/plant/peir/. The treatment activities described below are consistent with the PEIR.

In accordance with integrated pest management principles, CDFA has evaluated possible treatment methods and determined that there are no physical, cultural, or biological control methods available to eliminate the ACP from this area. Notice of Treatment is valid until February 8, 2020, which is the amount of time necessary to determine that the treatment was successful.

The treatment plan for the ACP infestation will be implemented within a 50-meter radius of each detection site, as follows:

- Tempo® SC Ultra (cyfluthrin), a contact insecticide for controlling the adults and nymphs of ACP, will be applied from the ground using hydraulic spray equipment to the foliage of host plants; and

- Merit® 2F or CoreTect™ (imidacloprid), a systemic insecticide for controlling the immature life stages of ACP, will be applied to the soil underneath host plants. Merit® 2F is applied from the ground using hydraulic spray equipment. CoreTect™, which is used in place of Merit® 2F in situations where there are environmental concerns about soil surface runoff of liquid Merit® 2F, is applied by inserting the tablets into the ground and watering the soil beneath the host plants.

Public Notification:

Residents of affected properties shall be invited to a public meeting where officials from CDFA, the Department of Pesticide Regulation, the Office of Environmental Health Hazard Assessment, and the county agricultural commissioner's office shall be available to address residents' questions and concerns.

Residents are notified in writing at least 48 hours in advance of any treatment in accordance with the Food and Agricultural Code sections 5771-5779 and 5421-5436.

Following the treatment, completion notices are left with the residents detailing precautions to take and post-harvest intervals applicable to the citrus fruit on the property.

Treatment information is posted at http://cdfa.ca.gov/plant/acp/treatment_maps.html. Press releases, if issued, are prepared by the CDFA information officer and the county agricultural commissioner, in close coordination with the program leader responsible for treatment. Either the county agricultural commissioner or the public information officer serves as the primary contact to the media.

Information concerning the ACP/HLB program shall be conveyed directly to local and State political representatives and authorities via letters, emails, and/or faxes.

For any questions related to this program, please contact the CDFA toll-free telephone number at 800-491-1899 for assistance. This telephone number is also listed on all treatment notices.

Enclosed are the findings regarding the treatment plan, a November 22, 2017 UC and USDA briefing paper on the increasing detection rate of ACP/HLB, ACP/HLB work plan, map of the treatment area, integrated pest management analysis of alternative treatment methods, and a pest profile.

Attachments

FINDINGS REGARDING A TREATMENT PLAN FOR THE ASIAN CITRUS PSYLLID

On February 8, 2019, the California Department of Food and Agriculture (CDFA) confirmed the presence of Asian citrus psyllid (ACP), *Diaphorina citri* Kuwayama, in the city of San Francisco, San Francisco County. This detection indicates that a breeding population exists in the area. ACP is a harmful exotic insect pest and a vector of Huanglongbing (HLB) disease.

HLB is considered one of the most devastating diseases of citrus in the world. The bacterium that causes the disease, *Candidatus* Liberibacter asiaticus, blocks the flow of nutrients within the tree and causes the tree to starve to death within two to five years of infection. There is no cure. Symptoms of HLB include yellow shoots with mottling and chlorosis of the leaves, misshapen fruit, fruit that does not fully color, and fruit that has a very bitter taste, which makes it inedible for human consumption. These symptoms often do not appear until two years after infection, making this particular disease difficult to contain and suppress. These undesirable symptoms of HLB-infected trees result in the trees' loss of commercial and aesthetic value while at the same time such trees are hosts for spreading HLB.

ACP is native to Asia. It has appeared in Central and South America. In the United States, ACP has been found in Alabama, Arizona, Florida, Georgia, Hawaii, Louisiana, Mississippi, South Carolina, and Texas. In California, ACP has been found in twenty-six counties.

ACP feeds on members of the plant family Rutaceae, primarily on *Citrus* and *Murraya* species, but is also known to attack several other genera, including over forty species of plant that act as hosts and possible carriers. The most serious damage to the environment and property caused by ACP - the death and loss in value of host plants - is due to its vectoring HLB. In addition, the psyllids also cause injury to their host plants via the withdrawal of large amounts of sap as they feed and via the production of large amounts of honeydew, which coats the leaves of the tree and encourages the growth of sooty mold. Sooty mold blocks sunlight from reaching the leaves.

These pests present a significant and imminent threat to the natural environment, agriculture, and economy of California. For example, unabated spread of HLB would have severe consequences to both the citrus industry and to the urban landscape via the decline and the death of citrus trees. The value of California citrus production in the 2016-17 marketing year was $3.389 billion. The total economic impact of the industry on California's economy in 2016-17 was $7.1 billion. The California citrus industry added $1.695 billion to California's state GDP in 2016. Estimated full time equivalent jobs in the California citrus industry in 2016-17 totaled 21,674. Estimated wages paid by the California citrus industry income in 2016-17 totaled $452 million. A 20 percent reduction in California citrus acreage would cause a loss of 7,350 jobs, $127 million in employee income, and reduce state GDP by $501 million.

Additionally, if unabated, the establishment of HLB in California would harm the natural environment as commercial and residential citrus growers would be forced to increase pesticide use. Also, the establishment of HLB could lead to enforcement of quarantine restrictions by the United States Department of Agriculture (USDA) and our international trading partners. Such restrictions would jeopardize California's citrus exports, which are valued at over $800 million per year.

The causative bacteria of HLB was first detected in Los Angeles in 2012. It has subsequently been detected in Orange, Riverside, and San Bernardino counties. Prior to November 2017, the level of HLB risk in California was thought to be relatively stable. However, on November 22, 2017, the University of California and the USDA released a briefing paper that indicates, beginning in June 2017, a sharp increase in HLB and HLB-positive ACP detections, cities containing HLB, and ACP nymphs.

With the release of the November 22, 2017 briefing paper, the CDFA became aware of the exponential intensification of the HLB epidemic, as demonstrated by the indicators contained in the paper.

Infected trees are destroyed as soon as they are discovered. However, due to the length of time it takes for symptoms to appear on infected trees, new infestations continue to be discovered. If the current ACP infestation is not abated immediately, ACP will likely become established in neighboring counties and could pave the way for a statewide HLB infestation.

CDFA has evaluated possible treatment methods in accordance with integrated pest management (IPM) principles. As part of these principles, I have considered the following treatments for control of ACP: 1) physical controls; 2) cultural controls; 3) biological controls; and 4) chemical controls. Upon careful evaluation of each these options, I have determined that it is necessary to address the imminent threat posed by HLB using currently available technology in a manner that is recommended by the HLB Task Force.

Based upon input from the HLB Task Force, the Primary State Entomologist, the Primary State Plant Pathologist, USDA experts on HLB and ACP, and county agricultural commissioner representatives who are knowledgeable on ACP and HLB, I find there are no physical, cultural or biological control methods that are both effective against ACP and allow CDFA to meet its statutory obligations, and therefore it is necessary to conduct chemical treatments to abate this threat. As a result, I am ordering insecticide treatments for ACP using ground-based equipment within a 50-meter radius around the ACP detection site and any subsequent sites.

The option selected is a chemical control measure that involves the use of insecticides targeting both the adult and immature stages of ACP. This option was selected based upon biological effectiveness, minimal public intrusiveness, cost, and minimal impacts to the environment.

A Program Environmental Impact Report (PEIR) has been prepared which analyzes the ACP treatment program in accordance with Public Resources Code (PRC), Sections 21000 et seq. The PEIR was certified in December 2014, and is available at http://www.cdfa.ca.gov/plant/peir/. The PEIR addresses the treatment of the ACP at the program level and provides guidance on future actions against the ACP. It identifies feasible alternatives and possible mitigation measures to be implemented for individual ACP treatment activities. The ACP program has incorporated the mitigation measures and integrated pest management techniques as described in the PEIR. In accordance with PRC Section 21105, this PEIR has been filed with the appropriate local planning agency of all affected cities and counties. No local conditions have been detected which would justify or necessitate preparation of a site-specific plan.

Sensitive Areas

CDFA has consulted with the California Department of Fish and Wildlife's California Natural Diversity Database for threatened or endangered species, the United States Fish and Wildlife Service, the National Marine Fisheries Service and the California Department of Fish and Wildlife when rare and endangered species are located within the treatment area. Mitigation measures for rare and endangered species will be implemented as needed. The CDFA shall not apply pesticides to bodies of water or undeveloped areas of native vegetation. All treatment shall be applied to residential properties, common areas within residential development, non-agricultural commercial properties, and rights-of-way.

Work Plan

The proposed program area encompasses those portions of San Francisco County which fall within a 50-meter radius area around the property on which the ACP has been detected and any subsequent detection sites within the program boundaries. Notice of Treatment is valid until February 8, 2020, which is the amount of time necessary to determine that the treatment was successful. A map of the program boundaries is attached. The work plan consists of the following elements:

1. Treatment. Properties within 50-meters of each detection site shall be treated according to the following protocol. Treatments will be repeated, if necessary, as per label instructions.

   a. Tempo® SC Ultra, containing the contact pyrethroid insecticide cyfluthrin, will be applied by ground-based hydraulic spray equipment to the foliage of host plants for controlling the adults and nymphs of ACP. Treatment may be reapplied up to three times annually if additional ACPs are detected.

   b. Either Merit® 2F or CoreTect™, containing the systemic insecticide imidacloprid, will be applied to the root zone beneath host plants for controlling developing nymphs and providing long term protection against reinfestation. Merit® 2F is applied as a soil drench, while CoreTect™ tablets are inserted two to five inches below the soil surface and watered in to initiate tablet dissolution. CoreTect™ is used in place of Merit® 2F in situations where there are environmental concerns about soil surface runoff of the liquid Merit® 2F formulation. Treatment may be reapplied once annually if additional ACPs are detected.

Public Information

Residents of affected properties shall be invited to a public meeting where officials from CDFA, the California Department of Pesticide Regulation, the Office of Environmental Health Hazard Assessment, and the county agricultural commissioner's office shall be present to address residents' questions and concerns.

Residents shall be notified in writing at least 48 hours in advance of any treatment in accordance with the Food and Agricultural Code (FAC) sections 5771–5779 and 5421-5436.

After treatment, completion notices are left with the residents detailing precautions to take and post-harvest intervals applicable to the citrus fruit. Treatment information is posted at http://cdfa.ca.gov/plant/acp/treatment_maps.html.

For any questions related to this program, please contact the CDFA toll-free telephone number at 800-491-1899 for assistance. This telephone number is also listed on all treatment notices. Treatment information is posted at http://cdfa.ca.gov/plant/acp/treatment_maps.html.

Press releases, if issued, are prepared by the CDFA information officer and the county agricultural commissioner, in close coordination with the program leader responsible for treatment. Either the county agricultural commissioner or the public information officer serves as the primary contact to the media.

Information concerning the ACP program will be conveyed directly to local and State political representatives and authorities via letters, emails, and/or faxes.

Findings

ACP poses a significant and imminent threat to California's natural environment, agriculture, public and private property, and its economy.

The work plan involving chemical control of this pest is necessary to prevent loss and damage to California's natural environment, citrus industry, native wildlife, private and public property, and food supplies.

My decision to adopt findings and take action is based on sections 24.5, 401.5, 403, 407, 408, 5401-5405, and 5761-5764 of the FAC.

Karen Ross
Karen Ross, Secretary

2-21-19
Date

Asian Citrus Psyllid Program
San Francisco, San Francisco County
2019

0 0.25 0.5 0.75 mi

50 Meter Treatment Area

Sensitive Environmental Area Treatment Mitigations in Place

N S E W

I. Trapping and Visual Survey

A. Urban and Rural Residential Detection Trapping and Visual Survey

This is a cooperative State/County trapping program for the Asian citrus psyllid (ACP) to provide early detection of an infestation in a county. Traps are serviced by agricultural inspectors. The trap used for ACP detection is the yellow panel trap, which is a cardboard panel coated with stickum on each side. ACP becomes entangled on the sticky surface and cannot move off the trap. Yellow panel traps have proven successful at detecting infestations of ACP. At all locations where traps are placed, the host plant is visually inspected for ACP. If ACP is detected, the host will be visually surveyed for additional ACP and symptoms of huanglongbing (HLB).

- Trap Density: Five to 16 traps/square mile.
- Trap Servicing Interval: Every two to four weeks.
- Trap Relocation and Replacement: Traps should be replaced and relocated every four to eight weeks to another host at least 500 feet away, if other hosts are available.
- Visual surveys and/or tap sampling are conducted once at each trapping site when the trap is placed.

B. Delimitation Trapping and Visual Survey Outside of the Generally Infested Area

The protocols below are the actions in response to the detection of ACP in counties north of Santa Barbara County and the Tehachapi Mountains.

1. Response to the collection one or more ACP

a. Trapping

Density will be 50 traps per square mile in a four-square mile delimitation area centered on the detection site. Traps will be serviced weekly for one month. If no additional ACP are detected, the traps will be serviced monthly for one year past the identification date. Additional detections may increase the size of the delimitation survey area and will restart the one-year clock on the trap servicing requirement.

b. Visual Survey

All find sites and adjacent properties will be visually surveyed for ACP and HLB. Additional sites may be surveyed as part of the risk-based survey.

C. Commercial Grove Trapping

In counties with substantial commercial citrus production and are not generally infested with ACP, traps are placed within the groves at the density of one trap per 40 acres. Traps are replaced every month and submitted for screening.

In areas that are generally infested with ACP, agricultural inspectors visually survey commercial groves for plant tissue displaying symptoms of HLB and collect ACP which are tested for HLB.

D. Transect Survey

If high or scattered ACP populations are found in the initial inspections, a transect survey may be implemented to rapidly determine the extent of the infestation. This involves inspecting a minimum of 20 properties per square mile and/or placing 20 traps per square mile along eight radii in the cardinal directions (e.g., north, northeast, etc.). Transect surveys extend between five and 20 miles beyond a detection site, depending on the situation.

II. Treatment

CDFA's treatment activities for ACP vary throughout the state and depend on multiple factors. Factors CDFA considers prior to treatment include:

- Determination if suppression of ACP is feasible;
- The proximity of the ACP infestation to commercial citrus;
- Whether growers are conducting coordinated treatment activities;
- The level of HLB risk;
- Consistency with the overall goal of protecting the state's commercial citrus production.

Treatment scenarios throughout the state in which treatment will occur:

- In areas with commercial citrus production that are generally infested with ACP, and where all growers are treating on a coordinated schedule; CDFA may conduct residential buffer treatments to suppress ACP populations.
- In areas with commercial citrus production that are not generally infested with ACP; CDFA will conduct residential treatments in response to ACP detections.
- In areas where HLB is detected, CDFA will conduct residential treatments to suppress ACP populations.
- In areas where ACP has not been previously detected, or where ACP has been detected at low densities, CDFA will conduct residential treatments to prevent ACP establishment or suppress populations.
- In areas where ACP has been detected along the California-Mexico border, CDFA will conduct residential treatments in response to ACP detections to suppress ACP populations.

CDFA's current policy is to not conduct treatments in areas that are generally infested if there is limited or no commercial citrus production in the area, or if all growers in the area are not treating.

1. Treatment Protocols

A Program Environmental Impact Report (PEIR) has been certified which analyzes the ACP treatment program in accordance with Public Resources Code, Sections 21000 et seq. The PEIR is available at http://www.cdfa.ca.gov/plant/peir. The treatment activities described below are consistent with the PEIR.

In accordance with the integrated pest management principles, the CDFA has evaluated possible treatment methods and determined that there are no physical, cultural, or biological control available to eliminate ACP from an area.

In general, when treatment has been deemed appropriate, CDFA applies insecticides to host trees in the residential (urban) areas in a 50 to 800-meter radius around each detection site. Only ACP host plants are treated.

a. Within two miles of International Border with Mexico

- CDFA will treat residential citrus host plants within a 400-meter buffer of the border if ACP have been detected within one mile of the border within one year.
- A NOT will be issued.
- A public meeting will be held at least once per year.

b. Within a Generally Infested Area with Commercial Citrus Production

- CDFA will treat residential citrus host plants within a 400-meter buffer surrounding commercial citrus groves if the growers are conducting coordinated treatments in 90 percent of the designated Psyllid Management Area and if ACP have been detected within one mile of the commercial citrus groves within one year.
  - The exception is Imperial County, which has fewer residential properties, and therefore residential citrus host plants will be treated within 800 meters of commercial citrus.
- A NOT will be issued.
- A public meeting will be held at least once per year.

c. Outside of the Generally Infested Area

The actions below are in response to the detection of one or more ACP in counties north of Santa Barbara County and the Tehachapi Mountains.

- Detection of one ACP - All properties with hosts within a 50-meter radius of the detection site will be treated.
- Detection of two or more ACP - All properties with hosts within a 400-meter radius of the detection site will be treated.
- A NOT will be issued.
- A public meeting will be held at least once per year.

The actions below are in response to the detection of two or more ACP in Fresno, Madera, Kern, Kings, and Tulare counties.

- Detection of two or more ACP on one trap or one or more ACP detected on separate traps within 400 meters of each other within a six-month period – All properties with hosts within a 400-meter radius will be treated.
- In a commercial citrus environment, where there are few residences in the area, CDFA will treat the residential area within an 800-meter buffer surrounding commercial citrus groves if the growers are conducting coordinated treatments.
- A NOT will be issued.
- A public meeting will be held at least once per year.

d. In response to an HLB Detection

- All properties within a 400-meter radius of the detection site will be treated.
- A NOT will be issued.
- All host plants found to be infected with HLB shall be destroyed.

- Infected host plants shall be removed and destroyed by mechanical means.

- A Proclamation of an Emergency Program (PEP) will be issued.
- A public meeting will be held at least once per year.

2. Treatment Methodology

The treatment protocol consists of both a foliar and a systemic insecticide. The foliar insecticide is used for immediate reduction of the adult population in order to prevent the adults from dispersal. The systemic insecticide is a soil treatment used to kill the sedentary nymphs and provide long term protection against reinfestation. Treatment frequency is dependent on the insecticide applied and severity of the infestation. Treatments will end no later than two years after the last psyllid detection in the treatment area.

CDFA uses registered pesticides and follows the label directions. The treatment protocol may be adjusted to use only the foliar or the systemic insecticide to allow for mitigations in special situations.

a. Foliar Treatment

Tempo® SC Ultra (cyfluthrin) is a pyrethroid contact insecticide. Treatment will initially occur once, and subsequent applications may occur for up to three times annually if additional psyllids are detected. This material will be applied to the foliage of all host plants using hydraulic spray or hand spray equipment.

b. Soil Treatment

A systemic soil application will be made using either Merit® 2F or CoreTect™.

- Merit® 2F (imidacloprid), is a neonicotinoid systemic insecticide. Treatment will initially occur once, and a subsequent application may occur once on an annual basis if additional psyllids are detected. This material will be applied to the soil within the root zone of host plants.

- CoreTect™ (imidacloprid) is a neonicotinoid systemic insecticide. It is used in place of Merit® 2F in situations where there are environmental concerns about soil surface runoff of the liquid Merit® 2F formulation, such as host plants growing next to ponds and other environmentally sensitive areas. Treatment will initially occur once, with a subsequent application once on an annual basis if additional psyllids are detected. This material is a pelletized tablet and is inserted into the soil and watered in within the root zone of host plants.

INTEGRATED PEST MANAGEMENT ANALYSIS OF ALTERNATIVE TREATMENT METHODS FOR CONTROL OF THE ASIAN CITRUS PSYLLID AND HUANGLONGBING
May 2018

The treatment program used by the California Department of Food and Agriculture (CDFA) for control of the Asian citrus psyllid (ACP), *Diaphorina citri* (Hemiptera: Psyllidae), and the disease it transmits, namely Huanglongbing, *Candidatus* Lilberibacter asiaticus, targets multiple life stages. A contact insecticide is used for an immediate control of ACP adults in order to prevent spread, and a systemic insecticide is used to control developing ACP nymphs and to give the plant long term protection from re-infestation. The contact insecticide preferentially used contains the synthetic pyrethroid cyfluthrin, while the systemic insecticide contains the synthetic neonicotinoid imidacloprid. Both products have been shown to be effective against ACP elsewhere, particularly in Florida. In addition, HLB-infected plants are removed in their entirety and destroyed, in order to remove a reservoir for the disease. The California Huanglongbing Task Force, a joint government, university, and industry group formed in 2007 to provide guidance to the CDFA on matters pertaining to ACP and HLB has endorsed the use of these chemicals in the CDFA's treatment program.

Below is an evaluation of alternative treatment methods to control ACP and HLB which have been considered for treatment programs in California.

A. PHYSICAL CONTROL

Mass Trapping. Mass trapping of adults involves placing a high density of traps in an area in an attempt to physically remove them before they can reproduce. The current available trapping system for ACP relies on short distance visual stimulus, and is not considered effective enough to use in a mass trapping program.

Active Psyllid Removal. Adult ACPs are mobile daytime fliers, and adults could theoretically be netted or collected off of foliage. However, due to their ability to fly when disturbed, and the laborious and time-prohibitive task of collecting minute insects from several properties by hand, it would be highly unlikely that all adults could be captured and removed. Nymphs attach themselves to developing leaves and stems via their proboscis. Therefore, physical removal of the nymphs would entail removal of the growing shoots which will stunt the tree and reduce fruit production. For these reasons, mechanical control is not considered to be an effective alternative.

Host Removal. Removal of host plants for ACP would involve the large-scale destruction of plants and their roots by either physical removal or phytotoxic herbicides. Additionally, host removal could promote dispersal of female psyllids in search of hosts outside of the treatment area, thus spreading the infestation. For these reasons, host removal is considered inefficient and too intrusive to use over the entirety of the treatment areas used for ACP. However, physical host removal of HLB-infected plants in their entirety is used for HLB control, because it is limited in scope to just the infected tree and it is effective at eliminating the disease reservoir, thereby preventing further spread of the disease by ACP.

B. CULTURAL CONTROL

Cultural Control. Cultural controls involve the manipulation of cultivation practices to reduce the prevalence of pest populations. These include crop rotation, using pest-resistant varieties, and intercropping with pest-repellent plants. None of these options are applicable for ACP control in an urban environment, and may only serve to drive the psyllids outside the treatment area, thus spreading the infestation.

C. BIOLOGICAL CONTROL

Microorganisms. No single-celled microorganisms, such as bacteria, are currently available to control ACP.

Nematodes. Entomopathogenic nematodes can be effective for control of some soil-inhabiting insects, but are not effective, nor are they used, against above ground insects such as psyllids.

Parasites and Predators. There have been two parasites released in Florida against ACP, but only one of these are considered somewhat successful there, namely *Tamarixia radiata* (Hymenoptera: Eulophidae). This insect has been released into the environment in southern California. The CDFA is working with the citrus industry to pursue options for incorporating this parasite into treatment programs statewide. In addition, a second wasp has been recently released by the University of California Riverside, *Diaphorencyrtus aligarhensis*.

Sterile Insect Technique (SIT). SIT involves the release of reproductively sterile insects which then mate with the wild population, resulting in the production of infertile eggs. SIT has neither been researched nor developed for ACP, nor has it been developed for any species of psyllids, and is therefore unavailable.

D. CHEMICAL CONTROL

Foliar Treatment. A number of contact insecticides have been researched for use against ACP elsewhere, particularly in Florida. Contact insecticides are more effective against adult ACPs than the sedentary nymphs because adults actively move around on plants, thereby coming into contact with residues, whereas nymphs have to be directly sprayed in order for them to come into contact. The following product has been identified for use by the CDFA, based on a combination of effectiveness against ACP, worker and environmental safety, and California registration status.

Tempo® SC Ultra is a formulation of cyfluthrin which is applied to the foliage of all host plants. Tempo® SC Ultra is a broad-spectrum synthetic pyrethroid insecticide which kills insects on contact. Tempo® SC Ultra has no preharvest interval, which makes it compatible with residential fruit-growing practices.

Soil Treatment. A number of systemic insecticides have been researched for use against ACP elsewhere, particularly in Florida. Systemic insecticides are particularly effective against psyllid nymphs because nymphs spend much of their time feeding, thereby acquiring a lethal dose. The following products have been identified for use by the CDFA, based on a combination of effectiveness against ACP, worker and environmental safety, and California registration status.

Merit® 2F is a formulation of imidacloprid which is applied to the root system of all host plants via a soil drench. Imidacloprid is a synthetic neonicotinoid insecticide which controls a number of other phloem feeding pests such as psyllids, aphids, mealybugs, etc.

CoreTect™ is a formulation of imidacloprid which is applied to the root system of all host plants via insertion of a tablet into the soil, followed by watering. It is used in place of Merit® 2F in situations where there are environmental concerns about soil surface runoff of the liquid Merit® 2F formulation, such as host plants growing next to ponds and other environmentally sensitive areas.

E. RESOURCES

Grafton-Cardwell, E. E. and M. P. Daugherty. 2013. Asian citrus psyllid and huanglongbing disease. Pest Notes Publication 74155. University of California, Division of Agriculture and Natural Resources Publication 8205. 5 pp. http://www.ipm.ucdavis.edu/PDF/PESTNOTES/pnasiancitruspsyllid.pdf.

Grafton-Cardwell, E. E., J. G. Morse, N. V. O'Connell, P. A. Phillips, C. E. Kallsen, and D. R. Haviland. 2013. UC IPM Management Guidelines: Citrus. Asian Citrus Psyllid. Pest Notes Publication 74155. University of California, Division of Agriculture and Natural Resources. http://www.ipm.ucdavis.edu/PMG/r107304411.html.

PEST PROFILE

Common Name: Asian Citrus Psyllid

Scientific Name: *Diaphorina citri* Kuwayama

Order and Family: Hemiptera, Psyllidae

Description: The Asian citrus psyllid (ACP) is 3 to 4 millimeters long with a brown mottled body. The head is light brown. The wings are broadest in the apical half, mottled, and with a dark brown band extending around the periphery of the outer half of the wing. The insect is covered with a whitish waxy secretion, making it appear dusty. Nymphs are generally yellowish orange in color, with large filaments confined to an apical plate of the abdomen. The eggs are approximately 0.3 millimeters long, elongated, and almond-shaped. Fresh eggs are pale in color, then, turn yellow, and finally orange at the time of hatching. Eggs are placed on plant tissue with the long axis vertical to the surface of the plant.

History: Asian citrus psyllid was first found in the United States in Palm Beach County, Florida, in June 1998 in backyard plantings of orange jasmine. By 2001, it had spread to 31 counties in Florida, with much of the spread due to movement of infested nursery plants. In the spring of 2001, Asian citrus psyllid was accidentally introduced into the Rio Grande Valley, Texas on potted nursery stock from Florida. It was subsequently found in Hawaii in 2006, in Alabama, Georgia, Louisiana, Mississippi, and South Carolina in 2008. ACP was first found in California on August 27, 2008 in San Diego County. Subsequent to this initial detection in San Diego County, the ACP has been detected in Fresno, Imperial, Kern, Los Angeles, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Tulare, Ventura, Marin, Monterey, San Francisco, and Santa Clara counties. The ACP has the potential to establish itself throughout California wherever citrus is grown.

Distribution: ACP is found in tropical and subtropical Asia, Afghanistan, Saudi Arabia, Reunion, Mauritius, parts of South and Central America, Mexico, the Caribbean, and in the U.S. (Alabama, Arizona, California, Florida, Georgia, Hawaii, Louisiana, Mississippi, South Carolina, and Texas).

Life Cycle: Eggs are laid on tips of growing shoots; on and between unfurling leaves. Females may lay more than 800 eggs during their lives. Nymphs pass through five instars. The total life cycle requires from 15 to 47 days, depending on environmental factors such as temperature and season. The adults may live for several months. There is no diapause, but populations are low in the winter or during dry periods. There are nine to ten generations a year, with up to 16 noted under observation in field cages.

Hosts and Economic Importance: ACP feeds mainly on *Citrus* spp., at least two species of *Murraya*, and at least three other genera, all in the family Rutaceae. Damage from the psyllids occurs in two ways: the first by drawing out of large amounts of sap from the plant as they feed and, secondly, the psyllids produce copious amounts of honeydew. The honeydew then coats the leaves of the tree, encouraging sooty mold to grow which blocks sunlight to the leaves. However, the most serious damage caused by ACP is due to its ability to effectively vector three phloem-inhabiting bacteria in the genus *Candidatus* Liberibacter, the most widespread being *Candidatus* Liberibacter asiaticus. These bacteria cause a disease known as huanglongbing, or citrus greening. In the past, these bacteria have been extremely difficult to detect and characterize. In recent years, however, DNA probes, electron microscopy, and enzyme-linked immunosorbent assay tests (ELISA) have been developed that have improved detection. Symptoms of huanglongbing include yellow shoots, with mottling and chlorosis of the leaves. The juice of the infected fruit has a bitter taste. Fruit does not color properly, hence the term “greening” is sometimes used in reference to the disease. Huanglongbing is one of the most devastating diseases of citrus in the world. Once infected, there is no cure for disease and infected trees will die within ten years. The once flourishing citrus industry in India is slowly being wiped out by dieback. This dieback has multiple causes, but the major reason is due to HLB.

Host List

SCIENTIFIC NAME	COMMON NAMES
Aegle marmelos	bael, Bengal quince, golden apple, bela, milva
Aeglopsis chevalieri	Chevalier's aeglopsis
Afraegle gabonensis	Gabon powder-flask
Afraegle paniculata	Nigerian powder-flask
Amyris madrensis	mountain torchwood
Atalantia monophylla	Indian atalantia
Atalantia spp.	
Balsamocitrus dawei	Uganda powder-flask
Bergia (=*Murraya*) *koenigii*	curry leaf
Calodendrum capense	Cape chestnut
X Citroncirus webberi	
Choisya arizonica	Arizonia orange
Choisya ternate	Mexican or mock orange
Citropsis articulata	Katimboro, Muboro, West African cherry orange
Citropsis gilletiana	cherry-orange
Citropsis schweinfurthii	African cherry-orange
Citrus aurantiifolia	lime, Key lime, Persian lime, lima, limón agrio, limón ceutí, lima mejicana, limero
Citrus aurantium	sour orange, Seville orange, bigarde, marmalade orange, naranja agria, naranja amarga
Citrus hystrix	Mauritius papeda, Kaffir lime
Citrus jambhiri	rough lemon, jambhiri-orange, limón rugoso, rugoso
Citrus limon	lemon, limón, limonero
Citrus madurensis (=X *Citrofortunella microcarpa*)	calamondin
Citrus maxima	pummelo, pomelo, shaddock, pompelmous, toronja
Citrus medica	citron, cidra, cidro, toronja
Citrus meyeri	Meyer lemon, dwarf lemon
Citrus × nobilis	king mandarin, tangor, Florida orange, King-of-Siam
Citrus × paradisi	grapefruit, pomelo, toronja
Citrus reticulata	mandarin, tangerine, mandarina
Citrus sinensis	sweet orange, orange, naranja, naranja dulce
Citrus spp.	
Clausena anisum-olens	anis
Clausena excavata	clausena
Clausena indica	clausena
Clausena lansium	wampi, wampee

Clymenia polyandra	a-mulis
Eremocitrus glauca	Australian desert lime
Eremocitrus hybrid	
Esenbeckia berlandieri	Berlandier's jopoy
Fortunella crassifolia	Meiwa kumquat
Fortunella margarita	Nagami kumquat, oval kumquat
Fortunella polyandra	Malayan kumquat
Fortunella spp.	
Limonia acidissima	Indian wood apple
Merrillia caloxylon	flowering merrillia
Microcitrus australasica	finger-lime
Microcitrus australis	Australian round-lime
Microcitrus papuana	desert-lime
X *Microcitronella* spp.	
Murraya spp.	curry leaf, orange-jasmine, Chinese-box, naranjo jazmín
Naringi crenulata	naringi
Pamburus missionis	
Poncirus trifoliata	trifoliate orange, naranjo trébol
Severinia buxifolia	Chinese box-orange
Swinglea glutinosa	tabog
Tetradium ruticarpum	evodia, wu zhu yu
Toddalia asiatica	orange climber
Triphasia trifolia	trifoliate limeberry, triphasia
Vepris (=*Toddalia*) *lanceolata*	white ironwood
Zanthoxylum fagara	wild lime, lime prickly-ash

UCDAVIS UCRIVERSIDE

USDA United States Department of Agriculture
Animal and Plant Health Inspection Service

USDA United States Department of Agriculture
Agricultural Research Service

Briefing Paper: Recent changes in the ACP/HLB invasion in California and implications for regional quarantines

Date: 11/22/2017

Neil McRoberts, Carla Thomas, Brianna McGuire
Quantitative Biology & Epidemiology Lab, Plant Pathology Department, UC Davis, CA 95616

Beth Grafton Cardwell
Department of Entomology, UC Riverside & UC Lindcove Research and Extension Center, Exeter, CA 93221

David Bartels
USDA-APHIS-PPQ, Field Operations – Data Analysis, Risk, and Targeting, 2150 Centre Ave., Bldg B., 3E14, Fort Collins, CO 80526

Tim Gottwald
USDA-ARS, U.S. Horticultural Research Laboratory, 2001 S. Rock Road, Fort Pierce, FL 34945

State-wide background risk level for HLB

Since 2012, a background risk level for HLB in both residential and commercial citrus in each square mile of interest has been calculated 2-3 times per year using a risk model developed in Florida and adapted for use in California (Gottwald et al., 2014). The model uses a range of risk variables including census data, topography, land use, and known incidence of both HLB and Asian Citrus Psyllid (ACP) to produce a risk value ranging from 0 (extremely low risk) to 1 (very high risk) that applies to each square mile. Figure 1 shows the current risk status across the state at a county level, where the risk level applied to the county is the highest value for any individual square mile within that county

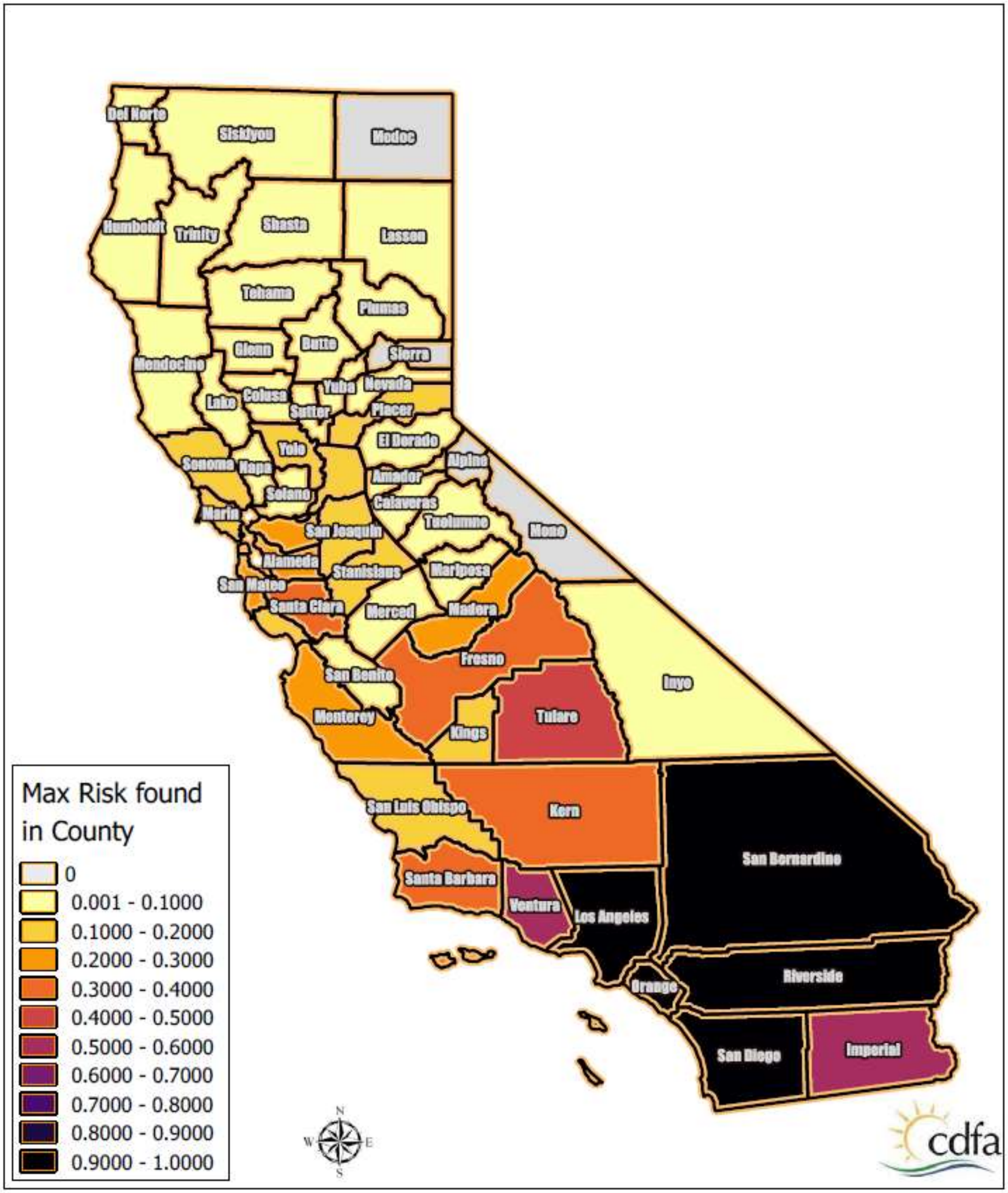

Figure 1. Maximum HLB risk level by county across California as estimated by the USDA-ARS HLB risk model.

In Figure 1 note that the risk level is generally higher in the south than north, because of the known presence of HLB and large ACP population in the southern counties. Note also that in northern California even counties with only a few ACP detections – for example Santa Clara County – may still have relatively high risk levels because of population census data that indicate the background risk of the presence of infected citrus in private yards is relatively high. To illustrate this point further, Figure 2 shows the San Francisco Bay Area in more detail.

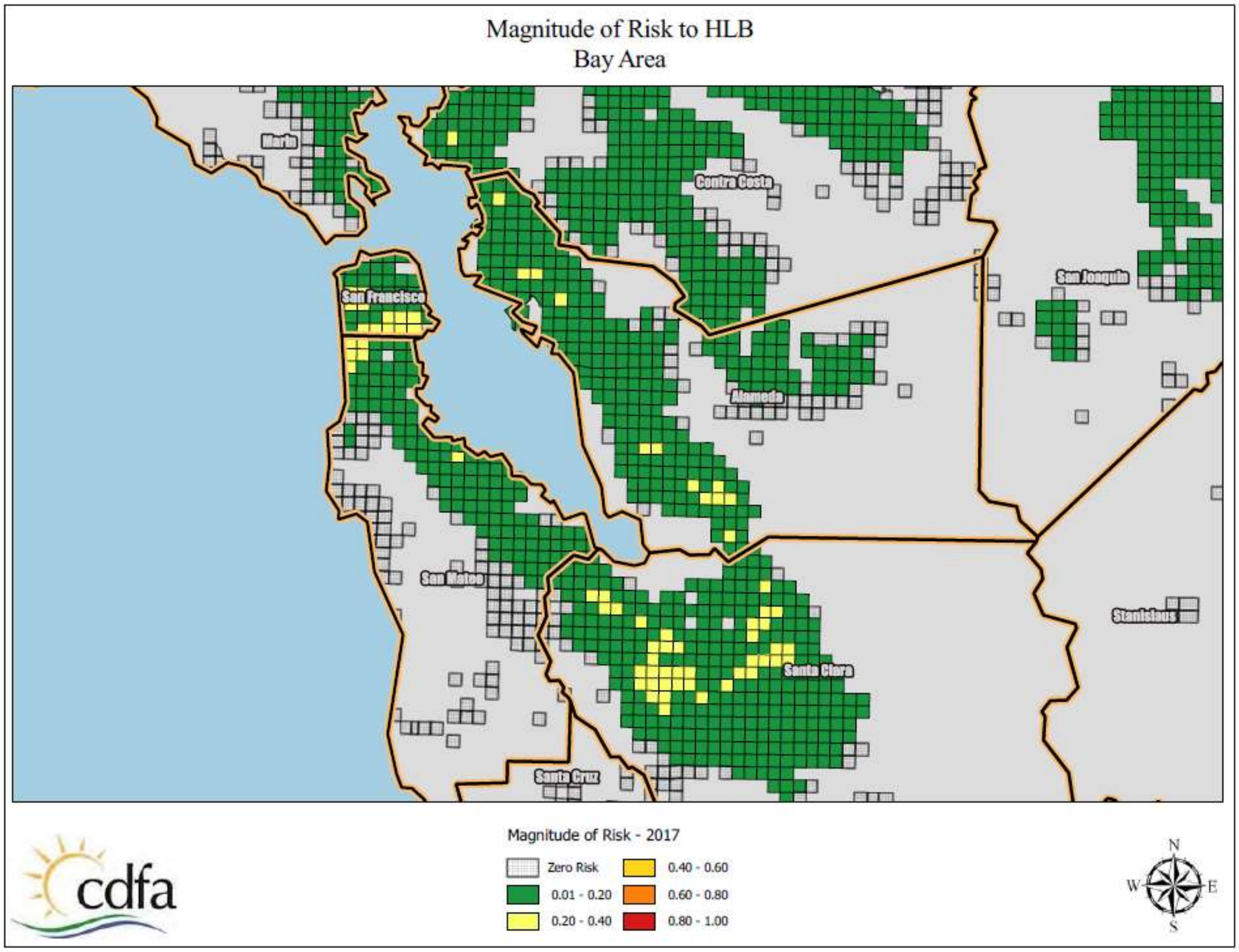

Figure 2. Individual square mile HLB risk levels for the San Francisco Bay Area. Note that the general risk level is low, but there are pockets of moderately high risk in San Francisco itself, and more noticeably in San Jose, associated with population census risk factors; ACP detections in this area is still low and sporadic.

While the background risk of HLB is strongly dependent on factors which are either static (e.g. topography) or change only slowly (e.g. human socio-economic factors) the presence of the ACP vector of the pathogen introduces a large dynamic component into the risk level across the state. To illustrate the impact of the vector population on changing risk status for HLB Figure 3 shows changes in HLB risk for the proposed quarantine areas 5 (San Diego, Imperial and Eastern Riverside) and 6 (LA. Western Riverside, San Bernardino and Orange). The risk level is shown as a blue-to-red heat map with higher risk indicated by darker red color and lower risk indicated by darker blue color; a time series of six periods is shown for each area.

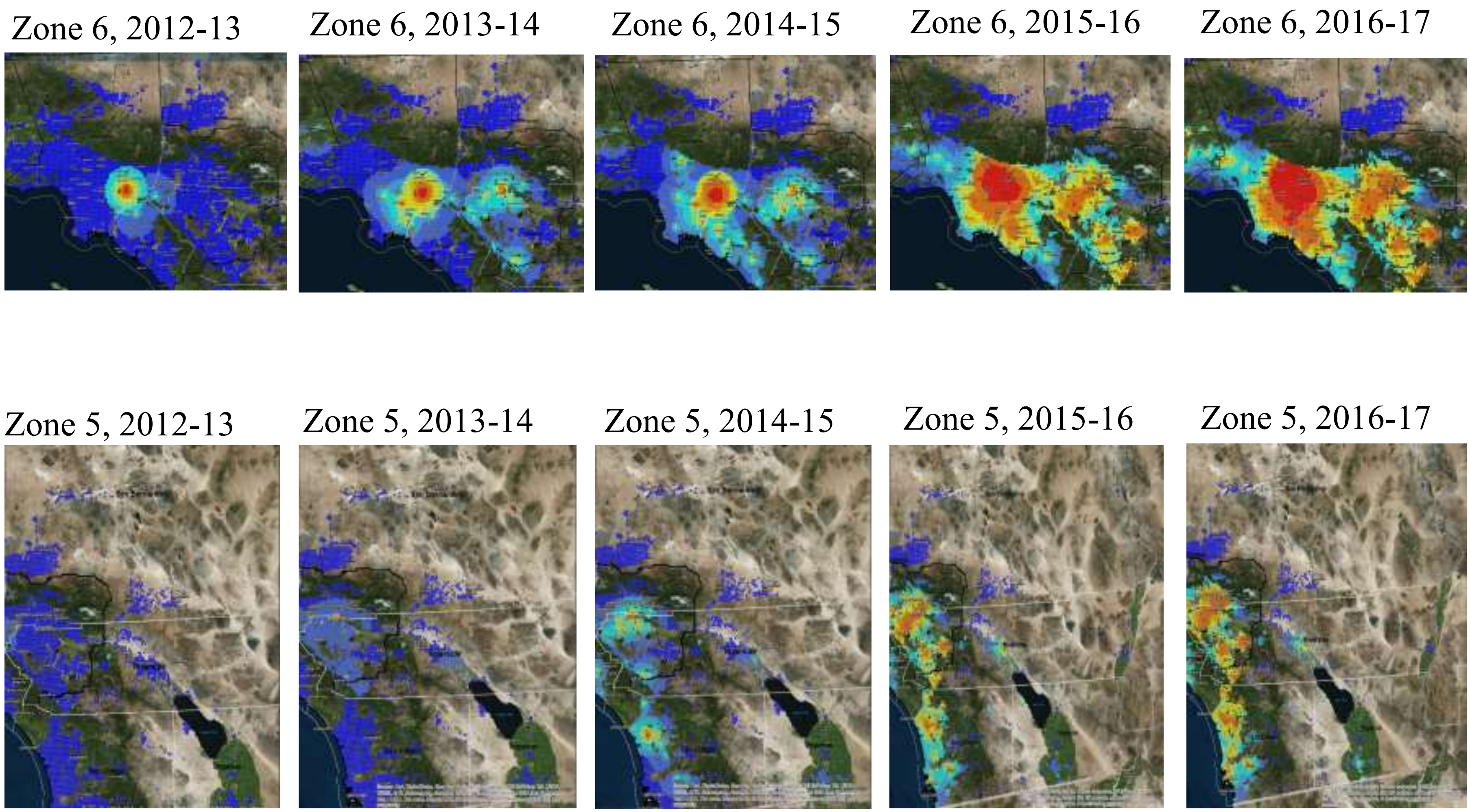

Figure 3. Changes in background risk of HLB in proposed quarantine areas 5 and 6 from 2012 to present. Red color indicates high risk, blue indicates low risk. Note that the location of the early HLB detections in Hacienda Heights and San Gabriel falls inside the single high-risk area predicted in 2012. The progressive increase in risk in both areas is apparent with the passage of time. All known cases of HLB are in proposed Quarantine Area 6.

Figure 3 tells us at least two useful things about HLB risk. First, note that in 2012-13 the only area of predicted high risk was centered on Hacienda Heights and San Gabriel, the locations of the first HLB discoveries in California; in other words, the risk model correctly anticipated the presence of HLB. Also note that the model also highlighted the focus of high risk in the city of Riverside as early as 2013-14; this outbreak emerged in 2017. These results are important for interpreting the presence of areas of elevated risk in places such as San Jose. Second, the pattern of change in risk in both areas 5 and 6 is a steady increase, spreading out from the original high risk area in LA, but also with additional foci developing at locations quite distant from the original focus. These changes are associated mainly with the spread of ACP through the region and the patterns of population density of the insect recorded in the risk-based surveys.

Taken together the results presented in this section highlight two important aspects of HLB risk that are relevant to quarantine regulations:

1. Because HLB-affected citrus plant material can be propagated and spread by human activity, the risk of HLB and ACP are to some extent independent, particularly in areas that are not generally infested with ACP.
2. **The risk of HLB can exist before the arrival of the vector** in an area because HLB-affected plant material is often brought to an area by human activities.

After ACP infests an area with pre-existing infected trees present, the vector population eventually comes into contact with the infected trees and foci of disease begin to build around them. This is because ACP acquires the pathogen from the infected trees and establishes a recurring cycle of infection and acquisition. Because trees remain asymptomatic for a long period of time, spread in the absence of detection and tree removal can occur.

Reducing disease spread by quarantines

The basic principle of underlying the use of quarantines is to restrict the spread of disease by sub-dividing an area into smaller regions and limiting the opportunities for disease to spread from one region to another. In the case of invasive and highly mobile diseases, quarantines should be applied early and rigorously to have the largest effect on disease spread. Importantly, quarantines do not have to be 100% effective to be worth imposing. If the incursion of the disease into generally uninfected areas can be limited to a low rate, and psyllid populations can be kept low, local eradications can be achieved when new incursions are detected.

The basic idea of setting up quarantine regions within the state is an ecological analogue of the idea of constructing a ship using multiple watertight compartments; even if one compartment is flooded, as long as the flow of water is negligible to the other compartments the ship won't sink. In instituting a quarantine policy, the aim is to limit the flow of vectors and disease throughout the state and thus safeguard the industry and homeowners as a whole.

Recent changes in the dynamics of HLB/ACP detections

Until recently, the rate of accumulation of new positive ACP and tree detections had been relatively stable. Over the last 6 months there has been a dramatic increase in the rate of new detections of HLB infections in both ACP and citrus trees. In addition, there has been a recent increase in the number of cities in which positive finds have been reported and a sharp increase in the number of ACP nymph detections. These results are summarized in Figures 4 through 7.

Taken together the results indicate an exponential increase in the intensity of the HLB epidemic at multiple scales. The pathogen is becoming more prevalent in the vector population and in the tree population. At the same time, the upswing in nymphal detections indicates that the transmission rate is increasing and the increase in the number of cities with positive detections indicates that the geographic extent of the epidemic is increasing rapidly.

Most of these changes have become apparent only in the last 6 months. Given the very sharp increase in the intensity of the epidemic, a rapid response is needed to implement additional measures to slow the rate of spread of HLB beyond its current range before the opportunity is lost.

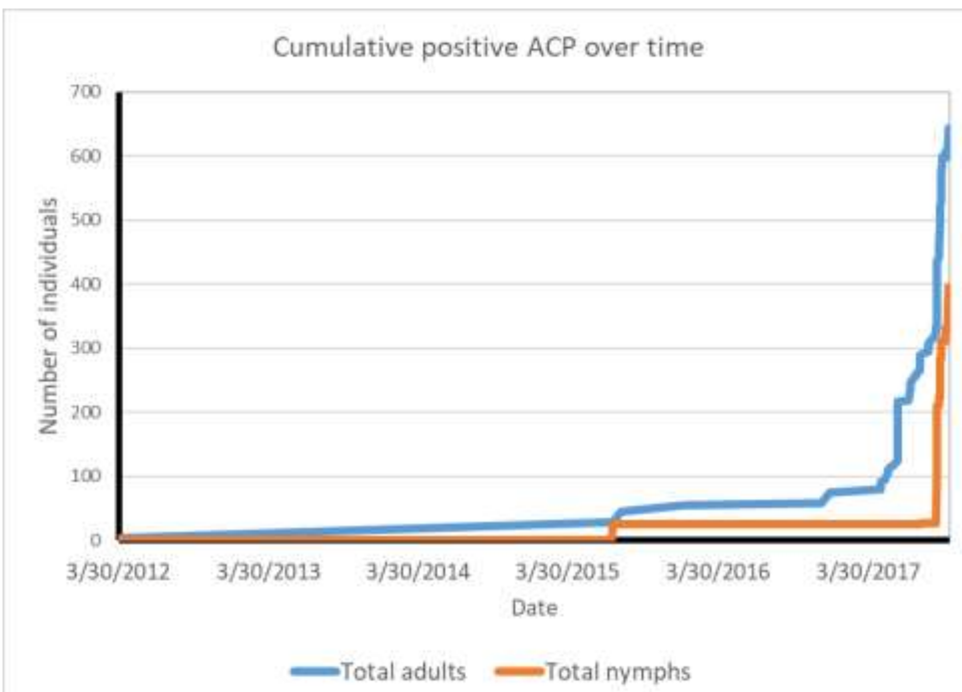

Figure 4: Cumulative counts of PCR-positive ACP samples collected in California over time since 2012. Note the sharp increase in the rate of accumulation from mid-2017 onwards.

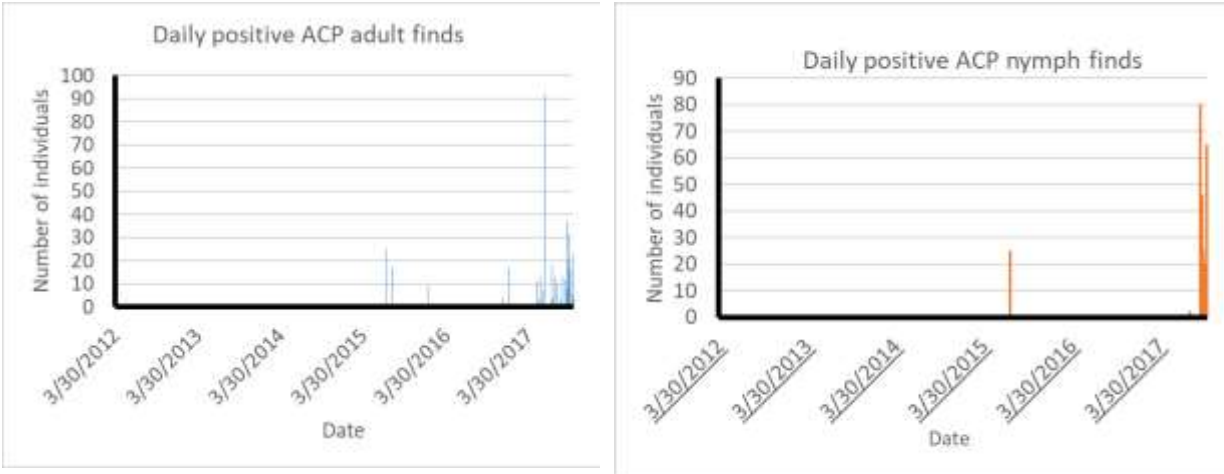

Figure 5: Daily discovery rate for PCR-positive ACP (adults and nymphs are shown separately). Note the sharp increase in finds toward the end of 2017, particularly for nymphs which had largely been absent from positive samples until recent detections.

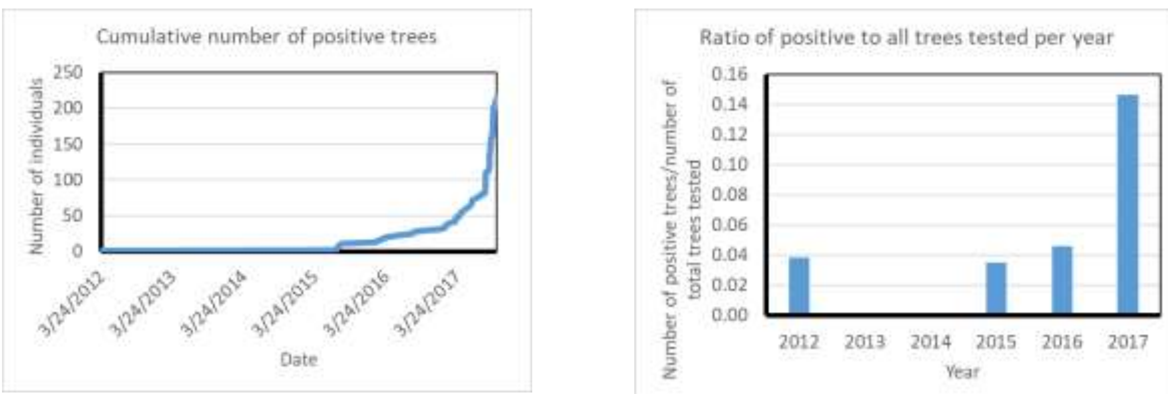

Figure 6: PCR-positive tree detections over time. In the left panel the cumulative number of detections is shown, highlighting the exponential increase in 2017. In the right panel the ratio of positive trees to all trees tested per year is shown. Note that until 2017 the ratio had been more or less stable at approximately 5%, but has nearly tripled in 2017 to just under 15%.

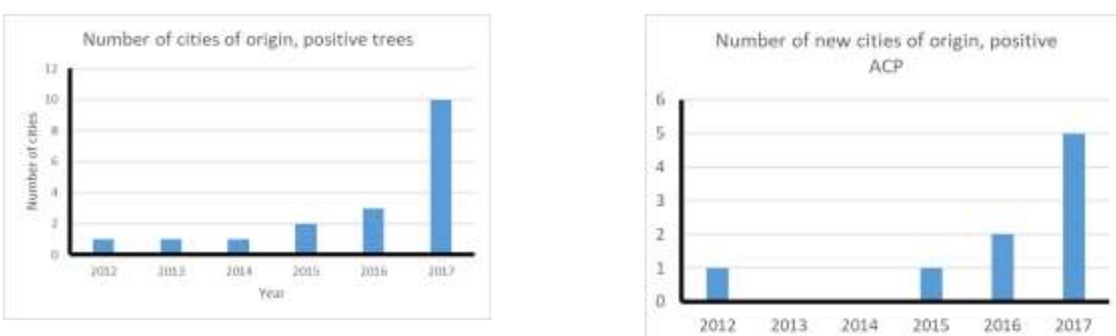

Figure 7: Numbers of citites with PCR-positive ACP detections over time. The left panel shows the cumulative figure, the right panel shows the number of new cities per year. Mirroring the results for trees and for ACP, note the sharp increase in 2017. These results indicate that the epidemic is intensifying across several spatial scales at a very high rate.

Changes in diagnostic results on tested Asian Citrus Psyllids

The previous section detailed the recent sharp increases in PCR detections for ACP and trees. These increases indicate that the pathogen population is growing and this can be seen directly by considering the Ct values in qPCR tests. Results highlighting the increase in the pathogen population are shown here in Figures 8 and 9.

Figure 8 shows the data for qPCR Ct values obtained from psyllid samples collected in different sampling cycles of the survey program. The data are sub-divided into samples obtained from inside and outside the existing HLB quarantine areas. It can be seen that the Ct values obtained from ACP samples inside the quarantine areas are showing a much faster increase in the proportion of low values (CT <32 to 33), indicating an intensification of the pathogen population in the vector population.

The presence of some ACP with low qPCR Ct values outside the existing quarantine areas highlights the risk of ACP moving the disease around and the need for quarantine regulations that apply at a larger scale than the current radius around confirmed HLB-positive trees.

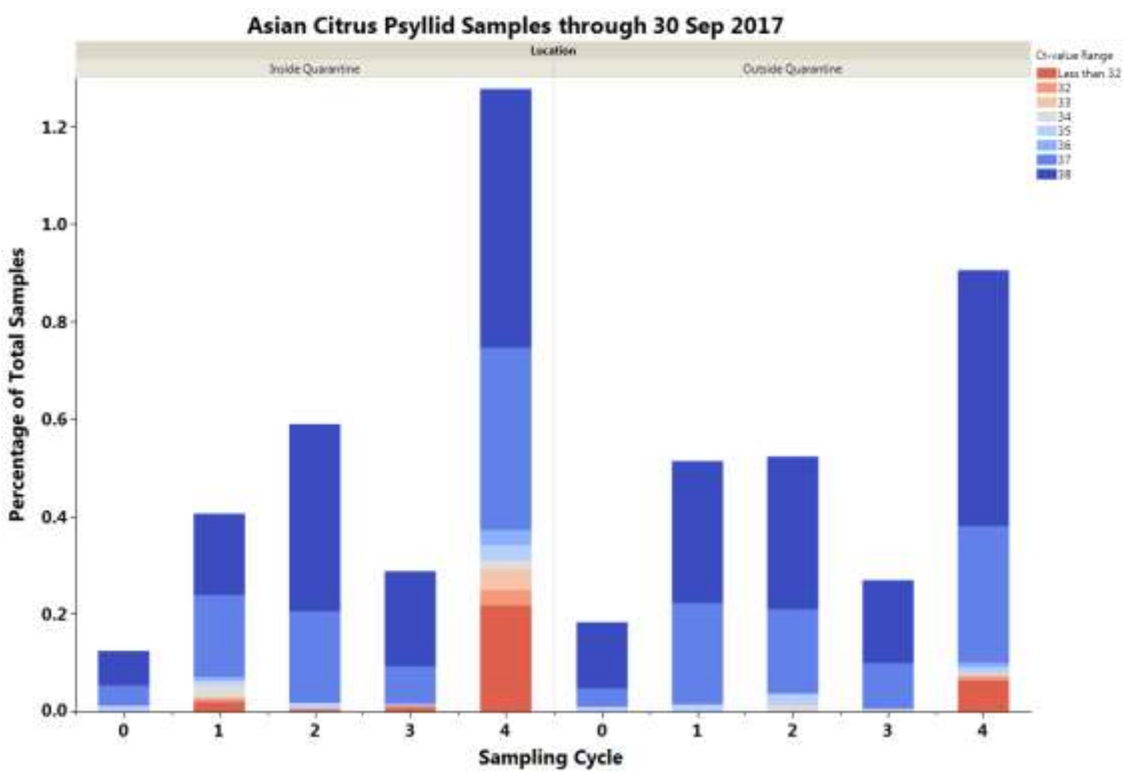

Figure 8: qPCR test results on ACP samples tested by CDFA through 30 September 2017. Note that the proportion of light blue and red (indicating presence of the HLB pathogen) in the samples from inside the quarantine areas (left panel) has increased over time, whereas no corresponding change is apparent in samples outside the quarantine areas (right panel).

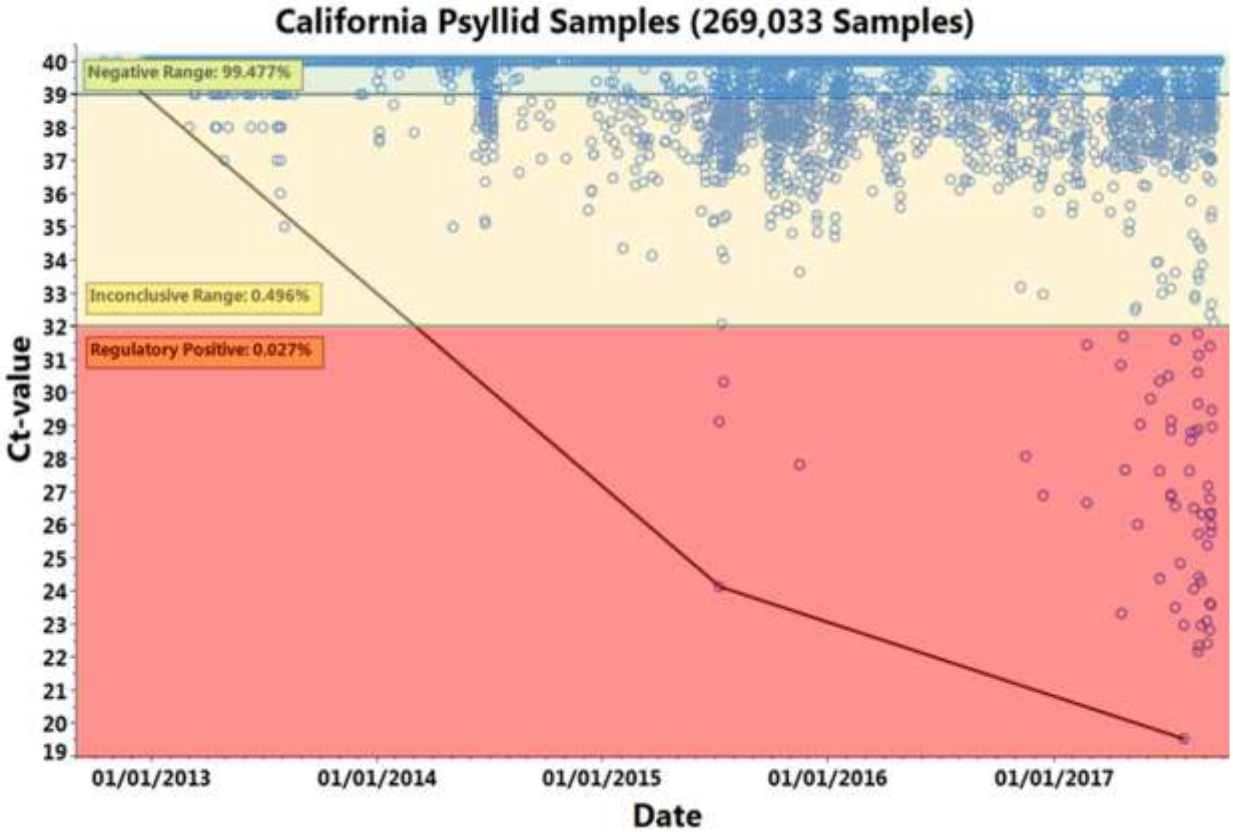

Figure 9: qPCR regulatory results recorded since the detection of HLB in California over time compared to the concentration of the pathogen in the sample (Ct < 32.1= HLB positive (red zone), Ct 32.1-38.9 = suspect (yellow zone), Ct > 38.9=HLB not detected (green zone)). The lower the Ct value, the higher the concentration of the HLB bacterium. Note the trend towards lower Ct values over time and the increase in numbers of HLB positive psyllids starting in 2015 and continuing through 2017 indicating that the titre (concentration) of HLB DNA in the psyllids is increasing.

Implications of changes in the dynamics and recommendations

To summarize the recent changes in the dynamics of HLB/ACP detections in trees and psyllids:

1. The number of HLB positive citrus trees detected has increased exponentially in the last 4 months as compared to the previous 6 years.
2. The number of HLB positive and infectious Asian citrus psyllids has increased exponentially in the last four months as compared to the previous 6 years.
3. These HLB infectious psyllids are spreading to new communities in the LA basin at a significantly escalated rate compared to the previous 6 years.
4. These infectious psyllids can be spread by movement of ACP-host nursery stock, bulk citrus, and other possible carriers of ACP.

Given the above developments in the California HLB epidemic it is of the utmost urgency to further compartmentalize the state using quarantine zones defined by HLB risk to commercial citrus (rather than 5 mile and county wide quarantines). This will help to reduce the potential for spread of HLB to zones where HLB has not been detected in citrus trees, nor has Asian citrus psyllid become established in some cases. The proposal to divide the state into 7 zones for bulk citrus movement and three zones for nursery stock, will serve to restrict the dispersal of HLB and its ACP vectors. Currently all known HLB infected trees are inside a single quarantine zone – zone 6. However, with the exponential escalation of the number of infected ACP and citrus trees requires an immediate regulatory response to restrict spread before the opportunity for such measures to be effective is lost.

BOS-11
File No. 181247
Leg. Clerk

February 14, 2019

Board of Supervisors
City Hall
1 Dr. Carlton B Goodlett Place
Room 244
San Francisco, Ca 94102

Ref: File #181247
CEQA 2831 – 2833 Pierce Street

Dear Board:

We, Barbara and Dan Heffernan are homeowners living at 2423 Green Street. This is the contiguous cross street to the above project. We are very concerned about the style and scale of development that has been going on in Cow Hollow. There appears to be little regard by the developers for the character of our neighborhood. The proposed designs by these developers ignore the guidelines established by the CHA and used by the Planning Commission. These new mega houses especially ignore the open space requirements and are very often much larger than the original house.

We would like to save the historic façade and the envelope of 2831-33 Pierce and strongly support the appeal against the CEQA exemption determination.

Thank you.

Sincerely,

Barb & Dan Heffernan

Barbara and Dan Heffernan
2423 Green Street
San Francisco, Ca 94123
Heffassoc@gmail.com

From:	Board of Supervisors, (BOS)
To:	Wong, Linda (BOS)
Subject:	FW: Support Letters for Treasure Island Marina--February 19 2019
Date:	Wednesday, February 20, 2019 10:32:00 AM
Attachments:	AFT Local 212 Support Letter.pdf TI YMCA letter for marina.pdf Abdo Nasser TIE Support Letter.pdf Bay Crossings-TI Support Letter-02-13-2019.pdf

From: Jay Wallace <jwallace@jaywallaceassociates.com>
Sent: Tuesday, February 19, 2019 3:05 PM
To: Yee, Norman (BOS) <norman.yee@sfgov.org>; Fewer, Sandra (BOS) <sandra.fewer@sfgov.org>; Stefani, Catherine (BOS) <catherine.stefani@sfgov.org>; Safai, Ahsha (BOS) <ahsha.safai@sfgov.org>; Peskin, Aaron (BOS) <aaron.peskin@sfgov.org>; Ronen, Hillary <hillary.ronen@sfgov.org>; Mar, Gordon (BOS) <gordon.mar@sfgov.org>; Brown, Vallie (BOS) <vallie.brown@sfgov.org>; Haney, Matt (BOS) <matt.haney@sfgov.org>; Mandelman, Rafael (BOS) <rafael.mandelman@sfgov.org>; Walton, Shamann (BOS) <shamann.walton@sfgov.org>; Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>
Cc: Breed, Mayor London (MYR) <mayorlondonbreed@sfgov.org>; Beck, Bob (MYR) <bob.beck@sfgov.org>
Subject: Re: Support Letters for Treasure Island Marina--February 19 2019

Dear President Yee and Supervisors: Attached below is a third set of letters from supporters of the TI Marina, including one from the AFT Local 2121 who was previously opposed the project, but, as stated in its letter, is now in support following the compromise reached by the marina and the Board of Supervisors last year. Please include these letters, along with the prior letters submitted, to the Board's file on this matter, and please feel free to contact me if you have any questions. Thank you, Jay Wallace

Jay Wallace
Kenwood Investments, LLC
Platinum Advisors, LLC

170 Columbus Avenue, #240
San Francisco, CA 94133
415-601-2081
jwallace@jaywallaceassociates.com

Abdo Nasser
Island Cove Market
800 Avenue H
Treasure Island
San Francisco, CA 04133

President Norman Yee and Supervisors
1 Dr. Carlton B. Goodlett Place
City Hall
San Francisco, CA 94102

RE: Support for the Treasure Island Marina

Dear President Yee and Supervisors:

I am the owner of the Island Cove Market on Treasure Island and a long-time active member of the Treasure Island community having operated this business on Island for more than 10 years.

I have participated from time to time in the discussions regarding the Marina and would like to voice my support for the project. I am personally aware that the Marina developers have lived up to their commitments to reduce the size of the marina to 200 slips and to ensure that the community, especially the TI Sailing Center, can enjoy the Cove as well. I do not believe that the marina will adversely impact community sailing programs in the Cove, especially since the marina developer has reduced the size of the marina in accordance with the Board of Supervisors 2018 Resolution.

I urge you to support the TIE Marina and lease when it comes before you for a vote.

Thank you.

Sincerely,

Abdo Nasser
Owner, Island Cove Market

AFT
2121 San Francisco Community College District Federation of Teachers

2/19/2019

President Norman Yee and Members
Of the San Francisco Board of Supervisors
1 Dr. Carlton B. Goodlett Place
City Hall
San Francisco, CA 94102

RE: Treasure Island Marina

Dear President Yee and Members of the Board:

We are writing to inform you that we are extremely pleased with latest plans for the Treasure Island Marina. As you may know, we initially opposed the TI Marina because we were concerned that its size would have a negative impact on the District's 4th grade STEM program that has utilized Clipper Cove successfully for many years now.

With the new plan for the marina, we believe that the District's STEM programs can continue to flourish, the new marina can be built, and the Board's and the developer's commitments can be implemented. Thank you for your leadership on this issue and for your consideration of our views in support of the Treasure Island Marina.

Sincerely,

Alayna Fredericks
Executive Directors

CC: Mayor London Breed

American Federation of Teachers, Local 2121
311 Miramar Avenue, San Francisco, CA 94112 • T: 415-585-2121 • F: 415-585-4305 • E: aft@aft2121.com

BayCrossings

"The Voice of the Waterfront"

13 February 2019

President Norman Yee and Supervisors
1 Dr. Carlton B. Goodlett Place
City Hall
San Francisco, CA 94102

RE: Support for Treasure Island Marina

Dear President Yee and Supervisors:

I am writing to express my support for the Treasure Island Marina project and the lease that will be coming before you soon.

I have been an active participant in the redevelopment of Treasure Island for more than twenty years, both individually and in my capacity as the owner and founder of *Bay Crossings*. Since the inception of the plans for TI, a new marina has been an important part of the plans. I am aware of the long, but successful, Board negotiations that occurred in 2017 and 2018 regarding the reduction in size of the marina in order to accommodate the Sailing Center and other uses in Clipper Cove. I think now that the size of the marina has been agreed upon, its time to approve the project and lease, and I urge you to do so when the project comes before you in the near future.

Thank you.

Very truly yours,

Bobby Winston

101 The Embarcadero, Ste 126, San Francisco, CA 94105

the YMCA

FOR YOUTH DEVELOPMENT®
FOR HEALTHY LIVING
FOR SOCIAL RESPONSIBILITY

Via Email

President Norman Yee and
Members of the Board of Supervisors
1 Dr. Carlton B. Goodlett Place
City Hall
San Francisco, CA 94102

RE: SUPPORT FOR TREASURE ISLAND MARINA

Dear President Yee and Board Members:

The Treasure Island YMCA, a long-time member of the Treasure Island community serving the needs of the resident population, would like to voice our support for the current marina project.

We are aware of the fact that the marina developer made many significant changes to the marina and we support the marina as it is now planned. We hope you will support the TI community and the new marina project and lease when those matters come before the Board in the near future.

Thank you for your consideration of this letter.

Sincerely,

Shiante Lewis
Director, Treasure Island Community YMCA and Youth Programs

BOS-11

GYMBOREE GROUP

BOARD OF SUPERVISORS
SAN FRANCISCO
2019 FEB 22 AM 11:16
BY jm

February 20, 2019

Via USPS Priority Mail

Malia Cohen, President
San Francisco Board of Supervisors City Hall
1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco, CA 94102

Re: **Announcement of Terminations of Employment at Gymboree Corporate Headquarters**

Dear Supervisor Cohen:

I am writing on behalf of Gymboree Group, Inc. (the "Company") to inform you that the Company will experience a reduction in its headquarters located at 71 Stevenson Street, San Francisco, CA, commencing on April 20, 2019, due to the Company's filing for bankruptcy yesterday.

All affected employees have been notified of their separation dates and that their separation from employment will be permanent. Those employees are expected to be separated from employment beginning on April 20, 2019. A total of 38 employees will be affected.

The Company does not have any job bumping rights or any other seniority system in place that would be available as a result of this decision.

Information about the job titles of positions affected and the number of employees in each affected position will be maintained in our offices for your review.

If you have any questions or required additional information, please contact me at the following address:

Jon W. Kimmins, Chief Financial Officer
Gymboree Group, Inc.
71 Stevenson Street, Suite 2200
San Francisco, CA 94105
Jon_Kimmins@gymboree.com /415-278-7115

Sincerely,

Jon W Kimmins

Jon W. Kimmins, Chief Financial Officer
#4830-0618-2789

From: Board of Supervisors, (BOS)
To: BOS-Supervisors
Subject: FW: Waiving of word count and time of adoption rules used for Proposition A
Date: Wednesday, February 20, 2019 10:07:00 AM

From: mike@dennz.com <mike@dennz.com>
Sent: Wednesday, February 13, 2019 8:06 PM
To: Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>
Cc: mike@dennz.com
Subject: Waiving of word count and time of adoption rules used for Proposition A

Board of Supervisors

I see the municipal code allowing the waiving of word count and time of adoption rules used for Proposition A. See below.

Section 510 Municipal Election Code

http://library.amlegal.com/nxt/gateway.dll?f=templates&fn=default.htm&vid=amlegal:sanfrancisco_ca

SEC. 510 . CITY ATTORNEY STATEMENT OR QUESTION.

(a) Format. Except as provided in Subsection (c) of this Section, the City Attorney shall prepare a general statement of any ballot measure to be submitted to the voters, followed by the words "yes" and "no," so arranged that voters may indicate a choice upon the ballot. The general statement or question shall not exceed 30 words, except where the subject measure is unusually complex, in which case the general statement or question shall not exceed 100 words.

(b) Deadline. The general question or statement for any measure shall be transmitted to the Director of Elections no fewer than 85 days prior to the election to which it relates, for printing and inclusion in the voter information pamphlet.

(c) Bond Measures. The City Attorney shall not prepare the general statement of a bond measure where the Board of Supervisors approves a general statement of the measure by ordinance or resolution. The general statement of a bond measure shall not exceed 100 words.

http://library.amlegal.com/nxt/gateway.dll?f=templates&fn=default.htm&vid=amlegal:sanfrancisco_ca

SEC. 2.34 . TIME OF ADOPTION OF RESOLUTION BEFORE ELECTION; TIME OF PASSAGE OF ORDINANCE ORDERING ELECTION.

The resolution provided for by Section 2.31 of this Code shall be adopted by the Board of

Supervisors not less than 141 days before the election at which such proposal is to be submitted to by the voters. At any meeting of the Board subsequent to that at which the resolution is adopted, but not less than 99 days before such election, the Board may finally pass an ordinance ordering the submission of such proposal to the qualified voters of the City and County at an election held for that purpose. The time limits as herein set forth may be waived by resolution of the Board of Supervisors.
(Amended by Ord. 16-74, App. 1/4/74; Ord. 112-87, App. 4/24/87; Ord. 133-99, File No. 990584, App. 5/28/99)

Do you know if the legislature or the courts have ruled on the legitimacy of this?

Thank you for your attention to this matter.

Michael F Denny
3329 Cabrillo St @ 34^{th} Ave.
San Francisco, CA 94121
(415) 750-9340
(415) 608-0269 cell
Mike@Dennz.com

From: Board of Supervisors, (BOS)
To: BOS-Supervisors
Subject: FW: Tolls would kill downtown
Date: Wednesday, February 20, 2019 10:07:00 AM

-----Original Message-----
From: Jamey Frank <jameyfrank@me.com>
Sent: Thursday, February 14, 2019 7:46 AM
To: Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>; MTA Board <MTABoard@sfmta.com>; Safai, Ahsha (BOS) <ahsha.safai@sfgov.org>; Cohen, Malia (BOS) <malia.cohen@sfgov.org>; Mandelman, Rafael (BOS) <rafael.mandelman@sfgov.org>; Peskin, Aaron (BOS) <aaron.peskin@sfgov.org>; Fewer, Sandra (BOS) <sandra.fewer@sfgov.org>; hilary.ronen@sfgov.org; Reiskin, Ed (MTA) <Ed.Reiskin@sfmta.com>; art.torres@sfgov.org; Breed, Mayor London (MYR) <mayorlondonbreed@sfgov.org>
Subject: Tolls would kill downtown

Dear Mayor, Supervisors and MTA,
The reasons the majority drive or take Uber downtown is because Muni sucks, and 96% don’t want to ride a bike or scooter. Adding a toll will just completely kill business, and further abandon filthy Market Street, close the clubs in SoMa, and increase crime.

I’ve lost numerous of staff who find Muni so unreliable, it takes 90 minutes to travel by Muni from the northeast side to Lake Merced, or 1 hour 45 minutes on transit from the east bay. Meanwhile, stores in the Sunset are bustling as downtown stores are closing due to lack of access and the unpleasantness of transit.

Punishing people out of cars just kills businesses and erodes neighborhoods. You must make transit reliable and attractive FIRST. Start by hiring some drivers who actually show up to work, and not abandon their posts shutting down the subway in rush hour.

Sincerely,

--Jamey Frank
San Francisco

From: Board of Supervisors, (BOS)
To: BOS-Supervisors
Subject: FW: Uber/Lyft in public bus stop
Date: Sunday, February 17, 2019 9:02:00 AM

From: Sue Vaughan <selizabethvaughan@gmail.com>
Sent: Thursday, February 14, 2019 10:56 AM
To: Reiskin, Ed (MTA) <Ed.Reiskin@sfmta.com>; Rebelos, Samantha (MTA) <Samantha.Rebelos@sfmta.com>; Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>; Cityattorney <Cityattorney@sfcityatty.org>; Phil Ting <Assemblymember.Ting@assembly.ca.gov>; David Chiu <Assemblymember.Chiu@assembly.ca.gov>; Scott Wiener <scott.wiener@sen.ca.gov>; Nick Zanjani <nick.zanjani@cpuc.ca.gov>; MTABoard <MTABoard@sfmta.com>; CAC <cac@sfmta.com>; Jim Beall <jim.beall@sen.ca.gov>; Breed, Mayor London (MYR) <mayorlondonbreed@sfgov.org>
Cc: Edward Mason <zabredala3@yahoo.com>; Cat, SF Transit Riders <info@sftransitriders.org>; SFPD, Commission (POL) <SFPD.Commission@sfgov.org>
Subject: Uber/Lyft in public bus stop

February 14, 2019
7:23 a.m.
On Divisadero at California, outbound

Ubers and Lyfts:
- exacerbate climate change
- poach passengers from public transportation;
- obstruct public transportation and cause congestion in general; and,
- and are part of the economic race to the bottom for drivers.

What are the legislative and enforcement plans to deal with the TNC problems and the threats this industry poses?

Susan Vaughan
San Francisco

From: Board of Supervisors, (BOS)
To: BOS-Supervisors
Subject: FW: Banana
Date: Sunday, February 17, 2019 9:00:00 AM

-----Original Message-----
From: Muriel Angle <mga6@me.com>
Sent: Friday, February 15, 2019 9:58 AM
To: Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>
Cc: hello@yimbyaction.org; Peskin, Aaron (BOS) <aaron.peskin@sfgov.org>
Subject: Banana

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

Good morning,

I generally do not agree with Aaron Peskin, who I find a curmudgeon most of the time. However, the article in todays Chronicle signed by Laura Foote made me congratulate Peskin for his recommendations aiming at protecting city houses that still preserve the character of our city and fall in the hands of greedy developers who would do anything to line their pockets, often disregarding regulations (near my domicile, one developer actually made a hole in the roof of a beautiful historical house to let the weather damage it to the point that it “needed demolishing”. It is now replaced by a “monster home”) Bravo for Peskin for trying to avoid such actions. The neighbors are often the best who know what works in their area.
I totally endorse this proposed legislation.

Muriel Angle
1215 Lombard St
San Francisco 94109

From: Board of Supervisors, (BOS)
To: BOS-Supervisors; Young, Victor (BOS)
Subject: FW: Reappointment Of Cindy Elias (File: 190197)
Date: Monday, February 25, 2019 4:51:00 PM

From: Jordan Davis <jodav1026@gmail.com>
Sent: Sunday, February 24, 2019 10:30 AM
To: Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>
Subject: Reappointment Of Cindy Elias (File: 190197)

I would like to urge the Rules Committee, as well as the rest of the board, to reappoint Cindy Elias to the Police Commission. I have never personally met Ms. Elias, but I believe that we really need the perspective of a public defender on that body more than ever, given the untimely passing of Jeff Adachi, and that she is someone who is very competent and understands the needs of community and has an equity lens.

Moreover, when it comes to reappointments to boards and commissions, the decision to reappoint someone should be based on their rooting in community and whether they are serving all people with an equity lens, and not petty politics. If a member of a board or commission is not enabling grave injustices, there's no real purpose in running against them.

Please do not repeat what happened with Angela Chan in 2014, please reappoint Cindy Elias without haste and without question.

From:	Board of Supervisors, (BOS)
To:	BOS-Supervisors
Subject:	FW: Replacement for Public Defender Jeff Adachi; Matt Gonzalez or other candidates
Date:	Monday, February 25, 2019 4:52:00 PM

From: Terry C <focusgrow@gmail.com>
Sent: Sunday, February 24, 2019 9:44 AM
To: Breed, London (MYR) <london.breed@sfgov.org>
Cc: Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>
Subject: Replacement for Public Defender Jeff Adachi; Matt Gonzalez or other candidates

Dear Mayor Breed & Board of Supervisors,

I do not mourn the death of Jeff Adachi. The progressive, left-ward match of our cit is troubling. The progressives is a small group of *vocal minority*. They are small. They are loud. And they are -- not gentle.
Progressive are radicalized by Saul Alinsky, a Chicago Professor credited as father of modern day community organizers. Alinsky wrote in "Rules for the Radicals" that there is no eternal truth. Moral is SELF-construct. Social Science is Experiment. Organizers need to preach Hope and Change. The ENDS justify the MEANS, therefore, lie, cheat, deceit, violence, everything goes. Hillary & Obama are Alinsky's followers.

The replacement by Matt Gonzalez is worrisome. Gonzalez defended Kate Steile's killer. Steinle, a young & vibrant woman with a full life before her was killed while walking with her dad on Embarcadero pier. The illegal who caused her death was found not guilty -- not even for involuntary manslaughter. He walked free after a short prison sentence. Her death was being politicized over our city's Sanctuary Law thanks to Matt Gonzalez, a brilliant lawyer. I thanked God that the Trump's Federal government took him in. Jose Zarate needs to face REAL justice for causing her DEATH.

Many of us law-abiding San Franciscans appreciate Angela Alioto's initiative to EXCLUDE sanctuary city protection for CONVICTED Illegal FELONS. We are disappointed that it did not pass. It is the most SENSIBLE.

While you might pick the replacement for Public Defender, I urged that you DO NOT pick anyone of these 4 candidates who ran for office in this article.
http://www.sfweekly.com/news/four-public-defenders-file-to-run-for-superior-judge-shaking-up-the-courts:*Kixuan Maloof, Niki Solis, Phoenix Streets, and Maria Evangelista*

I watched these 4 debated the 4 sitting judges in June 2018. Kixuan, Niki, Maria were VICIOUS hunting dogs. They are -- radicals and deluded. Their key argument "blacks make up 5% of SF population, but are 45% of prison population" is FALSE CORRELATION. Shame on them! By facts and by statistic, blacks committed MOST of the crimes. It only make sense that those committed crimes go to jails. Black leader, Larry Elder said "Blacks don't get thrown into jail just for walking down the streets! They are in jail for COMMITTED CRIMES!"

Black people should follow black leaders such as Larry Elder, Candace Owens, Thomas Sowell. They offer many good life lessons on youtube.
We are born in the GREATEST FREE nation on earth. We have made great progress in human right after Civil Right movement. Many blacks succeeded. And we need to feature them MORE.
Our medias totally have misguided and politicize the situation. They give the public and blacks a FALSE narrative of the current situation.

Candace Owens said Blacks need ONLY their themselves, and self-Confidence, -- instead of keep crying discrimination. Single motherhoods, teens having babies instead of studying hard ARE the Cause for Poverty and forever Welfare. Only when people choose to be self-dependent can they lift themselves up.
We need no more excuses.

Sincerely,
Terry Chong

From: Board of Supervisors, (BOS)
To: BOS-Supervisors
Subject: FW: Remove Sharp Park Golf Course from the Natural Areas Plan!
Date: Tuesday, February 26, 2019 9:54:00 AM

From: chelsea hernandez <info@email.actionnetwork.org>
Sent: Thursday, February 07, 2019 7:24 PM
To: Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>
Subject: Remove Sharp Park Golf Course from the Natural Areas Plan!

Angela Calvillo,

I urge you to remove the Sharp Park Golf Course redevelopment project, originally known as proposal “A18”, from the environmental review for San Francisco’s Significant Natural Resource Area Management Plan (“SNRAMP”). If you do not, you must reject the entire SNRAMP environmental review.

The environmental review for SNRAMP is inadequate because it contains a golf course redevelopment project that was inserted into the SNRAMP environmental review years after the review of SNRAMP was initiated, and long after several mandatory CEQA steps were completed. Thus the Sharp Park golf course redevelopment project never completed formal environmental scoping, was never subjected to mandatory public hearings, and did not benefit from early, formal oversight by other public agencies with subject matter jurisdiction.

When A18 was originally released in 2009, the Planning Department seemed to understand this procedural concern. The Department explained in the SNRAMP environmental scoping report, also released in 2009, that the golf course redevelopment project could never be incorporated into the SNRAMP environmental review process.

Despite this promise, in 2011 the draft environmental review for SNRAMP included the golf course redevelopment project, and after the draft was rubber-stamped by the planning and recreation and park commissions, the final environmental review does as well.

You cannot complete your job of fully vetting the environmental issues presented by the golf course redevelopment project, because the document before you skipped key steps in the CEQA process for the golf course redevelopment project.

Only if that portion of SNRAMP is removed and put through a separate environmental review process can we all be assured that San Francisco is making the most informed environmental decisions possible. Unless and until that happens, you must reject the final environmental review document for SNRAMP, because the fiscal, environmental, and recreational consequences of the Sharp Park Golf Course redevelopment project are so grave that it will wipe out any and all environmental benefits proposed in all other areas affected by SNRAMP.

chelsea hernandez
chelseasf@gmail.com
1555 B Street
San Rafael, California 94901

From: Board of Supervisors, (BOS)
To: BOS-Supervisors; Wong, Linda (BOS)
Subject: FW: Support for Legislation #181185, Mayor Breed"s Plan for $185M in Funding
Date: Tuesday, February 26, 2019 9:56:00 AM
Attachments: Support Letter for Mayor Breed Legislation #181185 .docx

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From: Kevin Carroll <kevin@hotelcouncilsf.org>
Sent: Friday, February 08, 2019 11:43 AM
To: Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>
Subject: Support for Legislation #181185, Mayor Breed's Plan for $185M in Funding

Dear Board of Supervisors,

As you work to finalize the legislation related to the additional funding, on behalf of the CleanSafe365 members signing onto the attached letter and the Clean and Safe coalition we wanted to reiterate our support for the Mayor’s plan for allocating the funding for homelessness programs and affordable housing.

Thank you for all the work and time you have been putting into this legislation.

Sincerely,

Kevin

Hotel Council of San Francisco

Kevin Carroll
President & CEO
Hotel Council of San Francisco
323 Geary Street, Suite 405
San Francisco, CA 94102
P (415) 391-5197 | F (415) 391-6070
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January 25, 2019

San Francisco Board of Supervisors
San Francisco City Hall
1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco, CA 94102

Re: Support for Legislation #181185, Mayor Breed's Plan for $185M of Discretionary Funding

On behalf of CleanSafe365 members signing onto this letter below and the Clean and Safe Coalition we are writing to ask for your support of the legislation #181185. The legislation appropriates $185M of discretionary funding to support homelessness and affordable housing programs, as well as programs focused on substance abuse and street cleaning. We believe the use of these funds to address San Francisco's most significant issues is critical for our residents, employees and visitors. This legislation is focused on the shared priorities of the voters and residents – homelessness and housing.

Everyone's priorities should be to house our unhoused neighbors. This legislation is proposing to use $90.5M in funds for one-time affordable housing investments that will build new housing, stabilize existing housing and rehabilitate housing. Adding and improving the housing available for our community is critical and this will help address that situation. The remaining $90.5M in funds would be used on expanding the City's continuum of care for homeless individuals and those struggling with mental health issues and substance abuse. $4M of these funds would be targeted on street cleaning and expanding the Pit Stop public toilet programs in the Tenderloin and SoMa. These are also critically needed for helping those in need and improving the quality of life for our residents, employees and visitors.

The organizations listed below realize there are several proposals for how to spend this additional $185M and feel strongly that the programs outlined in this legislation are the most critical and deserve the support this plan would provide. The success of our organizations is directly tied to the issues that this proposed funding is focused on, homelessness and housing, and support for the mentally ill and those struggling with substance abuse.

We ask that you support this legislation that will provide critically needed support.

Thank you,

Kevin Carroll
President and CEO
Hotel Council of San Francisco

Joe D'Alessandro
President and CEO
San Francisco Travel Association

Julian Bunim
Senior Vice President External Affairs
San Francisco Chamber of Commerce

Marc Intermaggio
Executive Vice President
BOMASF

Gwyneth Borden
Executive Director
Golden Gate Restaurant Association

Karin Flood
Executive Director
Union Square Business Improvement

Chris Wright
Executive Director
Committee on Jobs

Carlos Solorzano
CEO
Hispanic Chamber of Commerce SF

Randall Scott
Executive Director
Fisherman's Wharf CBD

Cathy Maupin
Executive Director
Yerba Buena Community Benefit District

Jose A. Pecho
President
San Francisco Filipino American Chamber of Commerce

Cc: Mayor London Breed

From: Board of Supervisors, (BOS)
To: BOS-Supervisors
Subject: FW: SF Human Rights Commission should be disbanded for indifference towards SF Blacks
Date: Tuesday, February 26, 2019 9:44:00 AM
Attachments: image001.png
image002.png

From: Allen Jones <jones-allen@att.net>
Sent: Thursday, February 21, 2019 1:37 PM
To: Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>; metro@sfchronicle.com; Newstips <newstips@sfexaminer.com>; sanfrancisco@ap.org; Info, HRC (HRC) <hrc.info@sfgov.org>
Cc: Heather Knight <hknight@sfchronicle.com>; joe@sfexaminer.com; editor@sfbayview.com; Bigad Shaban <bigad.shaban@nbcuni.com>; Robert (NBCUniversal) Campos <robert.campos@nbcuni.com>; Christien Kafton <christien.kafton@foxtv.com>
Subject: SF Human Rights Commission should be disbanded for indifference towards SF Blacks

Attention: All Members of the San Francisco Board of SUpervisors,

In my continued effort to question San Francisco's racism, I am calling for the SF Human Rights Commission to be disbanded based on its indifference of the SF Black community.
What is the San Francisco Gay Cause Commission?

What is the San Francisco Gay Cause Commission?

The San Francisco Gay Cause Commission, is what I renamed the San Francisco Human Rights Commission, based on my...

Allen Jones
jones-allen@att.net
(415) 756-7733

The only thing I love more than justice is the freedom to fight for it. -- Allen Jones --

From: Board of Supervisors, (BOS)
To: BOS-Supervisors
Subject: FW: Outside Lands permit renewal
Date: Tuesday, February 26, 2019 9:43:00 AM

From: David Romano <droma4@gmail.com>
Sent: Thursday, February 21, 2019 12:04 PM
To: Board of Supervisors, (BOS) <board.of.supervisors@sfgov.org>
Cc: SF Ocean Edge <sfoceanedge@earthlink.net>
Subject: Outside Lands permit renewal

Dear Supervisors,

Please support the adoption of objective noise standards for the Outside Lands Festival, and the hiring an acoustical engineer to design the sound system and consult on its installation and operation at every festival, as Andrew Solow has requested. Please do not approve the permit extension without these safeguards. The sound is too loud. It must be disturbing to the wildlife in the Park and it's also disturbing to humans living nearby.

Since APE has not acted responsibly in addressing citizen's noise complaints, the BOS should require the adoption of objective noise standards for the Festival.

Thank you for your consideration of the above.

David Romano
San Francisco
David Romano
droma4@gmail.com