

BEFORE THE
INDIANA UTILITY REGULATORY COMMISSION

PETITION OF CWA AUTHORITY, INC. FOR (1))
AUTHORITY TO INCREASE ITS RATES AND)
CHARGES FOR WASTEWATER SERVICE AND)
APPROVAL OF A NEW SCHEDULE OF RATES AND) CAUSE NO. 44685 S1
CHARGES APPLICABLE THERETO, INCLUDING A)
NEW RATE FOR LOW-INCOME CUSTOMERS; (2))
APPROVAL OF CERTAIN CHANGES TO ITS)
GENERAL TERMS AND CONDITIONS FOR)
WASTEWATER SERVICE; AND (3))
ESTABLISHMENT OF A SUBDOCKET)
PROCEEDING TO ADDRESS CERTAIN COST)
ALLOCATION ISSUES.)

SUPPLEMENT TO NOVEMBER 18, 2019 COMPLIANCE FILING

As a supplement to CWA Authority, Inc.'s ("CWA") rate decrease compliance filing submitted on November 18, 2019, in the above-referenced cause, CWA, by counsel, hereby files the following additional information requested by Commission Staff in support of CWA's revenue reconciliation:

Exhibit A, Workpaper S620-4, which is the flat rate customer billing determinant reclassification workpaper;

Exhibit B, Workpaper S620, which shows the inclusion of the flat rate customer count and volumes into Residential and Commercial classes, respectively;

Exhibit C, Workpaper S630, which is the pro forma billing determinants workpaper; and

Exhibit D, which is the Explanation of Use of Index on Tiered Volumes.

Respectfully submitted,

By: /s/ Lauren R. Toppen
Lauren R. Toppen
Counsel for CWA Authority, Inc.

CERTIFICATE OF SERVICE

The undersigned hereby certifies that a copy of the foregoing was served via electronic mail on December 19, 2019 to the following:

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Exhibit A, Workpaper S620-4

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CWA Authority, Inc.
Flat Rate Customer Billing Determinant Reclassification
June 2017 - May 2018

Line No.	Description	Reference	A Jun 2017	B Jul 2017	C Aug 2017	D Sept 2017	E Oct 2017	F Nov 2017	G Dec 2017	H Jan 2018	I Feb 2018	J Mar 2018	K Apr 2018	L May 2018	M Total
521110 - Flat Rate Revenues-Residential															
Expense Type 4010															
1	Flat Rate Customer Additions Adjusted Facility Charges	w/p S620-2	2	9	0	0	0	7	0	0	(1)	0	0	1	18
2	Deletions Adjusted Facility Charges	w/p S620-2	0	0	0	0	0	0	0	0	0	0	0	0	
3	Test Year Customers	w/p 619	(7,691)	(7,726)	(7,741)	(7,498)	(7,800)	(7,818)	(7,831)	(7,829)	(7,846)	(7,835)	(7,852)	(7,825)	(93,292)
4	Net Flat Rate Customer	In 1 + In 2 + In 3	(7,689)	(7,717)	(7,741)	(7,498)	(7,800)	(7,811)	(7,831)	(7,829)	(7,847)	(7,835)	(7,852)	(7,824)	(93,274)
Expense Type 4011															
5	Flat Rate Customer - 1 Occupant Additions Adjusted Facility Charges	w/p S620-2	0	0	0	0	15	0	0	0	0	0	0	0	15
6	Deletions Adjusted Facility Charges	w/p S620-2	0	0	0	0	0	0	0	0	0	0	0	0	
7	Test Year Customers	w/p 619	(2,266)	(2,236)	(2,205)	(2,295)	(2,297)	(2,302)	(2,309)	(2,322)	(2,356)	(2,341)	(2,371)	(2,354)	(27,654)
8	Net Flat Rate Customer - 1 Occupant	In 5 + In 6 + In 7	(2,266)	(2,236)	(2,205)	(2,295)	(2,282)	(2,302)	(2,309)	(2,322)	(2,356)	(2,341)	(2,371)	(2,354)	(27,639)
9	Flat Rate Customer - 2 Occupants Additions Adjusted Facility Charges	w/p S620-2	2	9	0	0	0	7	0	0	0	0	0	2	20
10	Deletions Adjusted Facility Charges	w/p S620-2	0	0	0	0	0	0	0	0	0	0	0	0	
11	Test Year Customers	w/p 619	(2,912)	(2,904)	(2,897)	(3,045)	(3,031)	(3,045)	(3,051)	(3,050)	(3,042)	(3,058)	(3,047)	(3,049)	(36,131)
12	Net Flat Rate Customer - 2 Occupants	In 9 + In 10 + In 11	(2,910)	(2,895)	(2,897)	(3,045)	(3,031)	(3,038)	(3,051)	(3,050)	(3,042)	(3,058)	(3,047)	(3,047)	(36,111)
13	Flat Rate Customer - 3 Occupants Additions Adjusted Facility Charges	w/p S620-2	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Deletions Adjusted Facility Charges	w/p S620-2	0	0	0	0	0	0	0	0	0	0	0	0	
15	Test Year Customers	w/p 619	(526)	(516)	(510)	(537)	(532)	(533)	(546)	(540)	(540)	(551)	(549)	(563)	(6,444)
16	Net Flat Rate Customer - 3 Occupants	In 13 + In 14 + In 15	(526)	(516)	(510)	(537)	(532)	(533)	(546)	(540)	(540)	(551)	(549)	(563)	(6,444)
17	Flat Rate Customer - 4 Occupants Additions Adjusted Facility Charges	w/p S620-2	13	0	0	0	6	0	1	0	1	2	1	7	31
18	Deletions Adjusted Facility Charges	w/p S620-2	0	0	0	0	0	0	0	0	0	0	0	0	
19	Test Year Customers	w/p 619	(1,987)	(1,932)	(1,881)	(1,906)	(1,940)	(1,936)	(1,923)	(1,916)	(1,908)	(1,886)	(1,885)	(1,859)	(22,959)
20	Net Flat Rate Customer - 4 Occupants	In 17 + In 18 + In 19	(1,974)	(1,932)	(1,881)	(1,906)	(1,934)	(1,936)	(1,922)	(1,916)	(1,907)	(1,884)	(1,884)	(1,852)	(22,928)
522110 - Measured Revenue-Residential															
Expense Type 4010															
21	Flat Rate Customer Additions Customer Reclass	- In 4	7,689	7,717	7,741	7,498	7,800	7,811	7,831	7,829	7,847	7,835	7,852	7,824	93,274
22	Deletions Adjusted Facility Charges														
23	Total Billing Instances	In 21 + In 22	7,689	7,717	7,741	7,498	7,800	7,811	7,831	7,829	7,847	7,835	7,852	7,824	93,274
Expense Type 4011															
24	Flat Rate Customer - 1 Occupant Customer Reclass	- In 8	2,266	2,236	2,205	2,295	2,282	2,302	2,309	2,322	2,356	2,341	2,371	2,354	27,639
25	Volume Additions Volume per customer (3,000 gallons = 4 ccf)		4	4	4	4	4	4	4	4	4	4	4	4	
26	Total Volume	In 24 + In 25	9,064	8,944	8,819	9,181	9,128	9,208	9,238	9,299	9,423	9,363	9,484	9,415	110,554
27	Flat Rate Customer - 2 Occupants Customer Reclass	- In 12	2,910	2,895	2,897	3,045	3,031	3,038	3,051	3,050	3,042	3,058	3,047	3,047	36,111
28	Volume Additions Volume per customer (3,600 gallons = 4.8 ccf)		4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	
29	Total Volume	In 27 + In 28	13,968	13,896	13,908	14,615	14,549	14,582	14,647	14,641	14,601	14,678	14,626	14,624	173,335
30	Flat Rate Customer - 3 Occupants Customer Reclass	- In 16	526	516	510	537	532	533	546	540	540	551	549	563	6,444
31	Volume Additions Volume per customer (5,400 gallons = 7.2 ccf)		7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	
32	Total Volume	In 30 + In 31	3,787	3,715	3,674	3,869	3,830	3,838	3,930	3,892	3,887	3,966	3,953	4,053	46,395

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CWA Authority, Inc.
Flat Rate Customer Billing Determinant Reclassification
June 2017 - May 2018

Line No.	Description	Reference	A Jun 2017	B Jul 2017	C Aug 2017	D Sept 2017	E Oct 2017	F Nov 2017	G Dec 2017	H Jan 2018	I Feb 2018	J Mar 2018	K Apr 2018	L May 2018	M Total
33	Flat Rate Customer - 4 Occupants Customer Reclass	- In 20	1,974	1,932	1,881	1,906	1,934	1,936	1,922	1,916	1,907	1,884	1,884	1,852	22,928
34	Volume Additions Volume per customer (7,200 gallons = 9.6 ccf)		9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	
35	Total Volume	In 33 * In 34	18,950	18,547	18,053	18,299	18,565	18,586	18,455	18,393	18,309	18,082	18,087	17,778	220,104
36	Residential Volumes (1 - 4 Occupants)	In 26 + In 29 + In 32 + In 35	45,770	45,102	44,454	45,964	46,072	46,214	46,270	46,214	46,219	46,089	46,151	45,870	550,388
521210 - Flat Rate Revenues-Commercial															
Expense Type 4010															
Small Commercial Flat Rate															
37	Additions Adjusted Facility Charges	w/p S620-2	0	9	0	0	0	0	0	0	0	0	0	0	9
38	Deletions Adjusted Facility Charges	w/p S620-2	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Test Year Customers	w/p 619	(143)	(141)	(143)	(142)	(144)	(143)	(143)	(141)	(143)	(142)	(142)	(141)	(1,708)
40	Net Commercial Flat Rate Customer - Small	In 37 + In 38 + In 39	(143)	(132)	(143)	(142)	(144)	(143)	(143)	(141)	(143)	(142)	(142)	(141)	(1,699)
Large Commercial Flat Rate															
41	Additions Adjusted Facility Charges	w/p S620-2	0	0	0	0	0	0	0	0	0	0	6	0	6
42	Deletions Adjusted Facility Charges	w/p S620-2	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Test Year Customers	w/p 619	(171)	(174)	(168)	(165)	(168)	(165)	(169)	(169)	(169)	(170)	(166)	(169)	(2,023)
44	Net Commercial Flat Rate Customer - Large	In 41 + In 42 + In 43	(171)	(174)	(168)	(165)	(168)	(165)	(169)	(169)	(169)	(170)	(160)	(169)	(2,017)
45	Commercial Volumes	In 40 + In 44	(314)	(306)	(312)	(307)	(313)	(308)	(312)	(310)	(312)	(311)	(302)	(310)	(3,717)
522210 - Measured Revenues-Commercial															
Expense Type 4010															
Commercial Flat Rate Customer															
46	Additions Customer Reclass	- In 45	314	306	312	307	313	308	312	310	312	311	302	310	3,717
47	Deletions Adjusted Facility Charges														
48	Total Billing Instances	In 46 + In 47	314	306	312	307	313	308	312	310	312	311	302	310	3,717
Expense Type 4011															
Small Commercial Flat Rate															
49	Additions	- In 40	143	132	143	142	144	143	143	141	143	142	142	141	1,699
50	Volume Addition Volume/Customer - Tier 1 (ccf)		5	5	5	5	5	5	5	5	5	5	5	5	5
51	Tier 1 (ccf)	In 49 * In 50	713	658	717	710	722	715	715	705	717	709	710	707	8,497
Large Commercial Flat Rate															
52	Additions	- In 44	171	174	168	165	168	165	169	169	169	170	160	169	2,017
53	Volume/Customer - Tier 1 (ccf)		10	10	10	10	10	10	10	10	10	10	10	10	10
54	Volume/Customer - Tier 2 (ccf)		4	4	4	4	4	4	4	4	4	4	4	4	4
55	Tier 1 (ccf)	In 52 * In 53	1,710	1,741	1,684	1,650	1,682	1,650	1,690	1,688	1,690	1,697	1,599	1,690	20,172
56	Tier 2 (ccf)	In 52 * In 54	684	696	674	660	673	660	676	675	676	679	640	676	8,069
57	Total Tier 1 (ccf)	In 51 + In 55	2,423	2,399	2,401	2,360	2,404	2,365	2,405	2,393	2,407	2,406	2,309	2,397	28,669
58	Total Tier 2 (ccf)	In 56	684	696	674	660	673	660	676	675	676	679	640	676	8,069

CWA Authority, Inc.
June, 2017 - May, 2018

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Exhibit B, Workpaper S620

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CWA Authority, Inc. June, 2017 - May, 2018															
			A	B	C	D	E	F	G	H	I	J	K	L	M
Line No.	Rate Class	Reference	June 2017	July 2017	August 2017	September 2017	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018	April 2018	May 2018	Adjusted Test Year
Account: 521212 - Flat Rate Revenues - Commercial FOG															
38	Total Test Year billing determinants	w/p 619	3,852	3,838	3,842	3,827	3,863	3,824	3,822	3,834	3,825	3,802	3,816	3,820	45,965
Net Adjustments															
39	Adjusted Facility Charge Billing Determinants - Flat Rate Commercial - FOG	w/p 620-2	(1)	(32)	0	(15)	(22)	(12)	(4)	0	(8)	(31)	(3)	(10)	(138)
40	Subtotal - Net Adjustments	In 39	(1)	(32)	0	(15)	(22)	(12)	(4)	0	(8)	(31)	(3)	(10)	(138)
41	Total Test Year Adjusted billing determinants/volume (Billing Instances)	In 38 + In 40	3,851	3,806	3,842	3,812	3,841	3,812	3,818	3,834	3,817	3,771	3,813	3,810	45,827
Account 522110 - Measured Revenue - Residential															
Services															
42	Test Year billing determinants	w/p 619	212,032	211,291	212,675	212,422	212,451	212,656	212,778	214,218	213,722	213,646	213,926	213,840	2,555,656
Net Adjustments															
43	Adjusted Facility Charge Billing Determinants - Base Charge - Residential	w/p 620-2	(25)	1	(11)	(40)	(51)	(11)	(8)	(1)	130	(58)	(106)	(19)	(199)
44	Flat Rate Customer Billing Determinant Reclassification	w/p 620-4	7,689	7,717	7,741	7,498	7,800	7,811	7,831	7,829	7,847	7,835	7,852	7,824	93,274
45	Subtotal - Net Adjustments	In 43 + In 44	7,664	7,718	7,730	7,458	7,749	7,800	7,823	7,828	7,977	7,777	7,746	7,805	93,075
46	Total Test Year Adjusted billing determinants (Billing Instances)	In 42 + In 45	219,696	219,009	220,405	219,880	220,200	220,456	220,601	222,046	221,699	221,423	221,672	221,644	2,648,731
Volumes															
47	Test Year billing determinants/volume - Tier 1	w/p 619	1,078,798	1,070,669	1,073,702	1,067,925	1,064,193	1,066,337	1,083,840	1,114,501	1,002,890	1,000,202	1,047,118	1,092,380	12,762,555
48	Test Year billing determinants/volume - Tier 2	w/p 619	78,112	73,460	71,207	69,068	67,086	74,141	148,438	204,798	202,705	170,922	154,412	90,001	1,404,350
Net Adjustments															
Tier 1															
49	Residential Minimum Volume	w/p 620-1	95,356	93,792	89,443	92,594	90,371	95,272	145,958	143,408	176,039	171,456	147,999	97,297	1,438,985
50	Consumption Adjustment Billing Determinants - Residential Minimum	w/p 620-3	(153)	(512)	(55)	(561)	(72)	(36)	(197)	(262)	(197)	(353)	(364)	(163)	(2,925)
51	Flat Rate Customer Billing Determinant Reclassification - 1 occupant volume	w/p 620-4	9,064	8,944	8,819	9,181	9,128	9,208	9,238	9,289	9,423	9,363	9,484	9,415	110,554
52	Flat Rate Customer Billing Determinant Reclassification - 2 occupants volume	w/p 620-4	13,968	13,896	13,908	14,615	14,549	14,582	14,647	14,641	14,601	14,678	14,626	14,624	173,335
53	Flat Rate Customer Billing Determinant Reclassification - 3 occupants volume	w/p 620-4	3,787	3,715	3,674	3,869	3,830	3,838	3,930	3,892	3,887	3,966	3,953	4,053	46,395
54	Flat Rate Customer Billing Determinant Reclassification - 4 occupants volume	w/p 620-4	18,950	18,547	18,053	18,299	18,565	18,586	18,455	18,393	18,309	18,082	18,087	17,778	220,104
55	Consumption Adjustment Optimization - Tier 1	w/p 620-5	(7,884)	(3,221)	(4,231)	(3,238)	(3,377)	(3,206)	(11,238)	(8,709)	(20,412)	(28,232)	(34,313)	(9,048)	(137,109)
56	Subtotal - Net Adjustments - Tier 1	In 49 + In 50 + In 51 + In 52 + In 53 + In 54 + In 55	133,089	135,161	129,611	134,759	132,994	138,244	180,793	180,651	201,649	188,960	159,473	133,956	1,849,339
Tier 2															
57	Consumption Adjustment Optimization - Tier 2	w/p 620-5	(8,929)	(3,647)	(4,580)	(3,505)	(3,656)	(3,470)	(12,165)	(9,428)	(20,594)	(30,561)	(37,145)	(9,794)	(147,474)
58	Subtotal - Net Adjustments - Tier 2	In 57	(8,929)	(3,647)	(4,580)	(3,505)	(3,656)	(3,470)	(12,165)	(9,428)	(20,594)	(30,561)	(37,145)	(9,794)	(147,474)
59	Total Test Year Adjusted billing determinants/volume - Tier 1 (CCF)	In 47 + In 56	1,211,887	1,205,830	1,203,313	1,202,684	1,197,187	1,204,580	1,264,633	1,295,152	1,204,540	1,189,162	1,206,590	1,226,336	14,611,894
60	Total Test Year Adjusted billing determinants/volume - Tier 2 (CCF)	In 48 + In 58	69,183	69,813	66,627	65,563	63,430	70,671	136,273	195,370	182,111	140,361	117,267	80,207	1,256,876
61	Total (CCF)	In 59 + In 60	1,281,070	1,275,643	1,269,940	1,268,247	1,260,617	1,275,252	1,400,906	1,490,522	1,386,651	1,329,522	1,323,857	1,306,543	15,868,770
Account 522210 - Measured Revenue - Commercial															
Services															
62	Test Year billing determinants	w/p 619	16,612	16,577	16,689	16,627	16,691	16,543	16,607	16,629	16,630	16,622	16,585	16,565	199,378
Net Adjustments															
63	Adjusted Facility Charge Billing Determinants - Commercial	w/p 620-2	0	(14)	0	(4)	(37)	0	(1)	0	0	(3)	(117)	(23)	(199)
64	Flat Rate Customer Billing Determinant Reclassification	w/p 620-4	314	306	312	307	313	308	312	310	312	311	302	310	3,717
65	Interdepartmental Billing Determinant Reclassification - Commercial	w/p 620-8	8	8	8	6	10	8	8	8	8	8	8	8	96
66	Subtotal - Net Adjustments	In 63 + In 64 + In 65	322	300	320	309	286	316	319	318	320	316	193	295	3,614
67	Total Test Year Adjusted billing determinants/volume (Billing Instances)	In 62 + In 66	16,934	16,877	17,008	16,936	16,977	16,859	16,926	16,947	16,951	16,939	16,778	16,860	202,992

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CWA Authority, Inc. June, 2017 - May, 2018																
			A	B	C	D	E	F	G	H	I	J	K	L	M	
Line No.	Rate Class	Reference	June 2017	July 2017	August 2017	September 2017	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018	April 2018	May 2018	Adjusted Test Year	
Volumes																
68	Test Year billing determinants/volume - Tier 1	w/p 619	90,097	89,738	89,743	89,538	89,112	87,540	87,541	88,490	85,522	86,321	87,184	87,703	1,058,530	
69	Test Year billing determinants/volume - Tier 2	w/p 619	932,331	985,304	981,893	1,028,210	944,925	861,178	859,183	901,449	848,567	1,475,096	933,027	1,173,409	11,924,573	
Net Adjustments																
Tier 1																
70	Minimum Volume - Commercial	w/p 620-1	16,080	15,870	15,874	16,418	16,704	16,785	16,709	16,485	17,542	17,353	16,911	16,629	199,360	
71	Consumption Adjustment Billing Determinants - Commercial Minimum	w/p 620-3	(34)	(73)	(24)	(144)	(74)	(38)	(22)	(28)	(78)	(167)	(8)	(65)	(755)	
72	Flat Rate Customer Billing Determinant Reclassification - Flat Rate Commercial Volume (Small) - Tier 1	w/p 620-4	2,423	2,399	2,401	2,360	2,404	2,365	2,405	2,393	2,407	2,406	2,309	2,397	28,669	
73	Consumption Adjustment Optimization - Tier 1	w/p 620-5	(2,858)	(603)	(7,255)	(11,499)	(9,975)	(10,809)	(4,106)	(1,826)	(4,486)	(9,253)	(9,468)	(5,915)	(78,053)	
74	Interdepartmental Billing Determinant Reclassification - Commercial	w/p 620-8	41	41	41	41	41	41	41	41	41	41	41	41	486	
75	Subtotal - Net Adjustments - Tier 1	In 70 + In 71 + In 72 + In 73 + In 74	15,652	17,633	11,037	7,176	9,099	8,344	15,027	17,065	15,425	10,379	9,785	13,086	149,707	
Tier 2																
76	Flat Rate Customer Billing Determinant Reclassification - Flat Rate Commercial Volume (Large) - Tier 2	w/p 620-4	684	696	674	660	673	660	676	675	676	679	640	676	8,069	
77	Consumption Adjustment Optimization - Tier 2	w/p 620-5	(3,236)	(683)	(7,854)	(12,448)	(10,798)	(11,700)	(4,445)	(1,977)	(4,856)	(654,346)	(71,542)	(6,403)	(790,288)	
78	Interdepartmental Billing Determinant Reclassification - Commercial	w/p 620-8	481	595	304	304	404	601	867	744	733	992	921	642	7,589	
79	Subtotal - Net Adjustments - Tier 2	In 76 + In 77 + In 78	(2,071)	609	(6,876)	(11,484)	(9,721)	(10,439)	(2,902)	(558)	(3,447)	(652,675)	(69,981)	(5,085)	(774,631)	
80	Total Test Year Adjusted billing determinants/volume - Tier 1 (CCF)	In 68 + In 75	105,749	107,372	100,779	96,714	98,212	95,884	102,567	105,555	100,947	96,700	96,969	100,789	1,208,236	
81	Total Test Year Adjusted billing determinants/volume - Tier 2 (CCF)	In 69 + In 79	930,260	985,913	975,017	1,016,726	935,204	850,739	856,281	900,891	845,120	822,421	863,046	1,168,324	11,149,943	
82	Total (CCF)	In 80 + In 81	1,036,009	1,093,285	1,075,797	1,113,440	1,033,416	946,622	958,848	1,006,446	946,068	919,121	960,015	1,269,112	12,358,179	
Account 522310 - Measured Revenue - Industrial																
Services																
83	Test Year billing determinants/volume - Tier 1	w/p 619	11	9	8	9	8	8	9	9	9	9	10	13	112	
84	Test Year billing determinants/volume - Tier 2	w/p 619	28	24	26	27	29	29	29	29	29	28	27	23	328	
85	Test Year billing determinants/volume - Tier 3	w/p 619	17	19	16	18	17	17	17	17	17	17	15	18	205	
86	Test Year billing determinants/volume - Tier 4	w/p 619	1	1	1	5	2	1	3	2	2	2	2	2	24	
87	Total Test Year billing determinants/volume - All Tiers	In 83 + In 84 + In 85 + In 86	57	53	51	59	56	55	58	57	57	56	54	56	669	
Net Adjustments																
88	Adjusted Facility Charge Billing Determinants - Industrial Flat Rate Tier 1	w/p 620-2	(2)	0	0	0	0	0	0	0	0	0	0	0	(2)	
89	Adjusted Facility Charge Billing Determinants - Industrial Flat Rate Tier 2	w/p 620-2	(5)	0	0	0	0	0	0	0	0	0	0	0	(5)	
90	Adjusted Facility Charge Billing Determinants - Industrial Flat Rate Tier 3	w/p 620-2	0	(1)	(1)	0	0	0	0	0	0	0	0	0	(2)	
91	Adjusted Facility Charge Billing Determinants - Industrial Flat Rate Tier 4	w/p 620-2	0	0	0	0	0	0	0	0	0	0	0	0	0	
92	Test Year Adjusted billing determinants/volume - Tier 1 (Billing Instances)	In 83 + In 88	9	9	8	9	8	8	9	9	9	9	10	13	110	
93	Test Year Adjusted billing determinants/volume - Tier 2 (Billing Instances)	In 84 + In 89	23	24	26	27	29	29	29	29	29	28	27	23	323	
94	Test Year Adjusted billing determinants/volume - Tier 3 (Billing Instances)	In 85 + In 90	17	18	15	18	17	17	17	17	17	17	15	18	203	
95	Test Year Adjusted billing determinants/volume - Tier 4 (Billing Instances)	In 86 + In 91	1	1	1	5	2	1	3	2	2	2	2	2	24	
96	Total Test Year Adjusted billing determinants/volume (Billing Instances)	In 92 + In 93 + In 94 + In 95	50	52	50	59	56	55	58	57	57	56	54	56	660	
Volume																
97	Test Year billing determinants/volume - Tier 1	w/p 619	921	1,025	1,059	1,243	650	583	441	433	416	496	287	336	7,891	
98	Test Year billing determinants/volume - Tier 2	w/p 619	8,154	9,332	9,762	10,101	8,974	5,251	3,129	3,253	2,940	3,257	3,608	5,407	73,169	
99	Test Year billing determinants/volume - Tier 3	w/p 619	23,926	17,106	25,331	23,815	24,177	15,517	13,613	13,888	12,170	13,371	19,248	17,607	219,769	
100	Test Year billing determinants/volume - Tier 4	w/p 619	187	186	244	18,526	4,850	4,384	4,262	4,785	4,176	4,542	4,500	10,988	61,631	
101	Total Test Year billing determinants/volume -	In 97 + In 98 + In 99 + In 100	33,187	27,649	36,396	53,686	38,652	25,736	21,445	22,360	19,702	21,666	27,642	34,339	362,459	
Net Adjustments																
102	Industrial Minimum Volume	w/p 620-1	10	12	8	16	7	244	89	10	8	13	12	19	448	
103	Consumption Adjustment Billing Determinants - Industrial	w/p 620-3	(766)	(2,047)	(2,269)	0	0	0	(310)	0	0	0	0	(275)	(5,667)	
104	Interdepartmental Billing Determinant Reclassification	w/p 620-8	13,454	13,399	13,383	13,249	13,406	13,390	13,200	13,200	13,761	13,376	16,146	16,235	166,199	
105	Subtotal - Net Adjustments	In 102 + In 103 + In 104	12,698	11,364	11,122	13,265	13,413	13,634	12,979	13,210	13,769	13,389	16,158	15,979	160,980	
106	Total Test Year Adjusted billing determinants/volume (CCF)	In 101 + In 105	45,885	39,013	47,518	66,950	52,065	39,371	34,424	35,570	33,471	35,055	43,800	50,318	523,439	

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CWA Authority, Inc. June, 2017 - May, 2018																
			A	B	C	D	E	F	G	H	I	J	K	L	M	
Line No.	Rate Class	Reference	June 2017	July 2017	August 2017	September 2017	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018	April 2018	May 2018	Adjusted Test Year	
Account 522311 - Measured Revenue - Industrial Excessive Strength																
Biochemical Oxygen Demand																
107	Test Year billing determinants/volume - BOD	w/p 619	2,558,865	2,307,963	2,277,759	3,114,717	2,092,070	2,313,896	2,040,176	2,287,700	2,752,331	3,655,695	2,225,693	1,819,286	29,446,150	
Net Adjustments																
108	Consumption Adjustment Billing Determinants - BOD	w/p 620-3	(665,806)	(58,137)	(5,708)	(1,066,427)	(252,027)	0	(13,500)	(17,422)	(4,501)	(118,992)	(67,670)	0	(2,270,190)	
109	Journal Entry Billing Determinants - BOD	w/p 620-6	(43,034)	43,034	0	0	0	0	0	0	0	0	0	0	0	
110	Interdepartmental Billing Determinant Reclassification - BOD	w/p 620-8	0	0	0	0	0	0	0	0	0	0	0	0	0	
111	Subtotal - Net Adjustments	In 108 + In 109 + In 110	(708,840)	(15,103)	(5,708)	(1,066,427)	(252,027)	0	(13,500)	(17,422)	(4,501)	(118,992)	(67,670)	0	(2,270,190)	
112	Test Year Adjusted billing determinants/volume - BOD (Pounds)	In 107 + In 111	1,850,025	2,292,860	2,272,051	2,048,290	1,840,043	2,313,896	2,026,676	2,270,278	2,747,830	3,536,703	2,158,023	1,819,286	27,175,960	
Total Suspended Solids																
113	Test Year billing determinants/volume - TSS	w/p 619	1,178,111	1,038,799	929,382	1,244,143	657,524	855,855	1,417,951	1,475,124	1,469,894	2,326,643	1,328,717	727,248	14,649,391	
Net Adjustments																
114	Consumption Adjustment Billing Determinants - TSS	w/p 620-3	0	(26)	(638)	(483,057)	(10,305)	0	(350)	(8,124)	(1,702)	(11,104)	(9,217)	0	(524,523)	
115	Journal Entry Billing Determinants - TSS	w/p 620-6	0	0	0	0	0	0	0	0	0	0	0	0	0	
116	Interdepartmental Billing Determinant Reclassification - TSS	w/p 620-8	0	8,422	4,860	11,201	7,154	6,791	12,638	1,640	66,241	56,565	60,948	197,319	433,779	
117	Subtotal - Net Adjustments	In 114 + In 115 + In 116	0	8,396	4,222	(471,856)	(3,151)	6,791	12,288	(6,484)	64,539	45,461	51,731	197,319	(90,744)	
118	Test Year Adjusted billing determinants/volume - TSS (Pounds)	In 113 + In 117	1,178,111	1,047,195	933,604	772,287	654,373	862,646	1,430,239	1,468,640	1,534,433	2,372,104	1,380,448	924,567	14,558,647	
Ammonia Nitrogen																
119	Test Year billing determinants/volume - NH ₃ -N	w/p 619	98,130	69,523	60,605	84,468	31,714	39,924	50,136	54,133	22,105	34,488	39,223	95,844	680,293	
Net Adjustments																
120	Consumption Adjustment Billing Determinants - NH ₃ -N	w/p 620-3	(23,511)	(24,751)	(15)	(58,275)	(212)	0	0	(2,341)	0	0	(34)	0	(109,139)	
121	Journal Entry Billing Determinants - NH ₃ -N	w/p 620-6	(15,583)	15,583	0	0	0	0	0	0	0	0	0	0	0	
122	Interdepartmental Billing Determinant Reclassification - NH ₃ -N	w/p 620-8	143	35	0	132	885	433	285	302	515	0	416	411	3,557	
123	Subtotal - Net Adjustments	In 120 + In 121 + In 122	(38,951)	(9,133)	(15)	(58,143)	673	433	285	(2,039)	515	0	382	411	(105,582)	
124	Test Year Adjusted billing determinants/volume - NH ₃ -N (Pounds)	In 119 + In 123	59,179	60,390	60,590	26,325	32,387	40,357	50,421	52,094	22,620	34,488	39,605	96,255	574,711	
Account 522312 - Measured Revenue - Industrial Self-Reporter																
Services																
125	Test Year billing determinants/volume - Tier 1	w/p 619	49	66	58	58	59	55	53	55	54	55	50	63	675	
126	Test Year billing determinants/volume - Tier 2	w/p 619	99	101	92	88	88	88	87	89	86	91	84	84	1,077	
127	Test Year billing determinants/volume - Tier 3	w/p 619	64	89	79	82	79	85	79	82	81	82	71	85	958	
128	Test Year billing determinants/volume - Tier 4	w/p 619	37	47	39	40	39	39	38	40	39	39	34	30	461	
129	Total Test Year billing determinants/volume	In 125 + In 126 + In 127 + In 128	249	302	268	268	265	267	257	266	260	267	239	262	3,170	
Tier 1																
Net Adjustments																
130	Adjusted Facility Charge Billing Determinants - Industrial Self-Reporter - Tier 1	w/p 620-2	0	0	0	0	0	0	0	0	0	0	0	0	0	
131	Interdepartmental Billing Determinant Reclassification - Industrial Self-Reporter Tier 1	w/p 620-8	1	1	1	1	1	1	1	1	1	1	1	2	13	
132	Subtotal - Net Adjustments - Tier 1	In 130 + In 131	1	1	1	1	1	1	1	1	1	1	1	2	13	
133	Test Year Adjusted billing determinants/volume - Tier 1 (Billing Instances)	In 125 + In 132	50	67	59	59	60	56	54	56	55	56	51	65	688	
Tier 2																
Net Adjustments																
134	Adjusted Facility Charge Billing Determinants - Industrial Self-Reporter - Tier 2	w/p 620-2	0	0	0	0	0	0	0	0	0	0	0	0	0	
135	Interdepartmental Billing Determinant Reclassification - Industrial Self-Reporter Tier 2	w/p 620-8	4	4	4	4	4	4	4	4	4	4	4	4	48	
136	Subtotal - Net Adjustments - Tier 2	In 134 + In 135	4	4	4	4	4	4	4	4	4	4	4	4	48	
137	Test Year Adjusted billing determinants/volume - Tier 2 (Billing Instances)	In 126 + In 136	103	105	96	92	92	92	91	93	90	95	88	88	1,125	

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CWA Authority, Inc. June, 2017 - May, 2018															
Line No.	Rate Class	Reference	A June 2017	B July 2017	C August 2017	D September 2017	E October 2017	F November 2017	G December 2017	H January 2018	I February 2018	J March 2018	K April 2018	L May 2018	M Adjusted Test Year
Tier 3															
Net Adjustments															
138	Adjusted Facility Charge Billing Determinants - Industrial Self-Reporter - Tier 3	w/p 620-2	0	0	0	0	0	0	0	0	0	0	0	0	0
139	Interdepartmental Billing Determinant Reclassification - Industrial Self-Reporter Tier 3	w/p 620-8	3	3	3	3	3	3	3	3	3	3	3	2	35
140	Subtotal - Net Adjustments - Tier 3	In 138 + In 139	3	3	3	3	3	3	3	3	3	3	3	2	35
141	Test Year Adjusted billing determinants/volume - Tier 3 (Billing Instances)	In 127 + In 140	67	92	82	85	82	88	82	85	84	85	74	87	993
Tier 4															
Net Adjustments															
142	Adjusted Facility Charge Billing Determinants - Industrial Self-Reporter - Tier 4	w/p 620-2	0	(1)	0	0	0	0	0	0	0	0	(2)	0	(3)
143	Interdepartmental Billing Determinant Reclassification - Industrial Self-Reporter Tier 4	w/p 620-8	3	3	3	3	3	3	3	3	3	3	3	3	36
144	Subtotal - Net Adjustments - Tier 4	In 142 + In 143	3	2	3	3	3	3	3	3	3	3	1	3	33
145	Test Year Adjusted billing determinants/volume - Tier 4 (Billing Instances)	In 128 + In 144	40	49	42	43	42	42	41	43	42	42	35	33	494
146	Total Test Year Adjusted billing determinants/volume (Billing Instances)	In 133 + In 137 + In 141 + In 145	260	312	279	279	276	278	268	277	271	278	248	273	3,299
Volume															
147	Test Year billing determinants/volume	w/p 619	7,493	3,194	2,633	4,046	2,128	1,906	1,819	1,588	968	4,479	1,191	1,510	32,955
148	Test Year billing determinants/volume	w/p 619	15,383	21,290	22,407	21,739	22,503	18,612	16,191	24,892	14,603	14,152	13,251	17,265	222,289
149	Test Year billing determinants/volume	w/p 619	84,962	121,533	88,840	103,675	408,369	101,139	84,110	83,804	81,617	80,510	79,238	86,508	1,404,304
150	Test Year billing determinants/volume	w/p 619	441,746	400,407	350,837	562,551	73,175	366,543	322,767	359,501	385,973	456,277	319,296	389,431	4,428,503
151	Total Test Year billing determinants/volume	In 147 + In 148 + In 149 + In 150	549,583	546,423	464,718	692,012	506,175	488,200	424,886	469,786	483,161	555,418	412,976	494,715	6,088,053
Net Adjustments															
152	Industrial Self-Reporter Minimum Volume (ccf)	w/p 620-1	771	3,351	1,115	434	394	317	383	371	341	360	435	176	8,449
153	Consumption Adjustment Billing Determinants - Industrial Self-Reporter	w/p 620-3	(71,397)	(74,398)	(6,786)	(157,408)	(20,845)	(4)	(7,107)	(51,156)	(4,814)	(12,921)	(5,335)	(25,123)	(437,294)
154	Journal Entry Billing Determinants	w/p 620-6	(12,647)	12,647	0	0	0	0	0	0	0	0	0	0	0
155	Interdepartmental Billing Determinant Reclassification	w/p 620-8	13,724	17,184	16,852	24,856	25,275	21,190	15,449	16,207	14,352	14,086	13,814	12,313	205,304
156	Subtotal - Net Adjustments	In 152 + In 153 + In 154 + In 155	(69,548)	(41,216)	11,181	(132,118)	4,824	21,503	8,725	(34,579)	9,879	1,526	8,914	(12,634)	(223,542)
157	Total Test Year Adjusted billing determinants/volume (CCF)	In 151 + In 156	480,035	505,207	475,900	559,893	510,999	509,703	433,612	435,207	493,040	556,944	421,890	482,081	5,864,511
Account 522313 - Measured Revenue - Industrial Haulers															
158	Test Year billing determinants/volume - Septic	w/p 619	389	316	236	204	179	185	197	145	167	195	253	248	2,715
159	Test Year billing determinants/volume - Grease	w/p 619	0	0	0	0	0	0	0	0	0	0	0	0	0
160	Total Test Year billing determinants/volume	In 158 + In 159	389	316	236	204	179	185	197	145	167	195	253	248	2,715
Septic															
Net Adjustments															
161	Consumption Adjustment Billing Determinants - Septic Haulers	w/p 620-3	(111)	0	0	0	0	0	0	0	0	0	0	0	(111)
162	Subtotal - Net Adjustments - Septic	In 161	(111)	0	0	0	0	0	0	0	0	0	0	0	(111)
163	Test Year Adjusted billing determinants/volume - Septic Haulers	In 160 + In 162	278	316	236	204	179	185	197	145	167	195	253	248	2,604
Grease															
164	Test Year Adjusted billing determinants/volume - Grease Haulers	In 159	0	0	0	0	0	0	0	0	0	0	0	0	0
165	Total Test Year Adjusted billing determinants/volume (1,000 gallons)	In 163 + In 164	278	316	236	204	179	185	197	145	167	195	253	248	2,604

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CWA Authority, Inc. June, 2017 - May, 2018															
			A	B	C	D	E	F	G	H	I	J	K	L	M
Line No.	Rate Class	Reference	June 2017	July 2017	August 2017	September 2017	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018	April 2018	May 2018	Adjusted Test Year
166	Account: 522314 - Measured Revenue - Industrial Steam Discharge Test Year billing determinants/volume	w/p 619	13,456	13,528	13,383	13,383	13,406	13,390	13,200	13,200	13,761	13,376	16,146	16,235	166,464
	Net Adjustments														
167	Consumption Adjustment Billing Determinants - Steam Discharge Volumes	w/p 620-3	(2)	(129)	0	(134)	0	0	0	0	0	0	0	0	(265)
168	Interdepartmental Billing Determinant Reclassification	w/p 620-8	(13,454)	(13,399)	(13,383)	(13,249)	(13,406)	(13,390)	(13,200)	(13,200)	(13,761)	(13,376)	(16,146)	(16,235)	(166,199)
169	Subtotal - Net Adjustments	In 167 + In 168	(13,456)	(13,528)	(13,383)	(13,383)	(13,406)	(13,390)	(13,200)	(13,200)	(13,761)	(13,376)	(16,146)	(16,235)	(166,464)
170	Total Test Year Adjusted billing determinants/volume (CCF)	In 166 + In 169	0	0	0	0	0	0	0	0	0	0	0	0	0
	Account: 522510 - Measured Revenue - Multiple Family														
	Services														
171	Test Year billing determinants/volume	w/p 619	2,830	2,840	2,833	2,841	2,846	2,841	2,836	2,845	2,836	2,838	2,840	2,820	34,046
	Net Adjustments														
172	Adjusted Facility Charge Billing Determinants - Multi-Family	w/p 620-2	(1)	0	(3)	0	(1)	0	0	(1)	2	0	0	(1)	(5)
173	Subtotal - Net Adjustments	In 172	(1)	0	(3)	0	(1)	0	0	(1)	2	0	0	(1)	(5)
174	Total Test Year Adjusted billing determinants/volume (Billing Instances)	In 171 + In 173	2,829	2,840	2,830	2,841	2,845	2,841	2,836	2,844	2,838	2,838	2,840	2,819	34,041
	Volume														
175	Test Year billing determinants/volume - Tier 1	w/p 619	20,712	20,665	20,498	20,446	20,309	20,412	20,723	20,897	20,374	20,319	20,673	20,771	246,801
176	Test Year billing determinants/volume - Tier 2	w/p 619	220,492	213,162	208,523	203,190	207,409	212,222	248,467	268,796	233,918	233,575	240,829	215,835	2,706,418
177	Total Test Year billing determinants/volume	In 175 + In 176	241,203	233,828	229,021	223,636	227,718	232,634	269,190	289,693	254,292	253,894	261,503	236,607	2,953,218
	Net Adjustments														
	Tier 1														
178	Multi-Family Minimum Volume	w/p 620-1	426	413	393	391	392	435	806	805	928	922	763	372	7,046
179	Consumption Adjustment Optimization - Tier 1	w/p 620-5	(2,355)	(2,671)	(1,159)	(119)	(10)	(61)	(34)	(293)	(1,032)	(2,279)	(1,289)	(312)	(11,614)
180	Subtotal - Net Adjustments - Tier 1	In 178 + In 179	(1,929)	(2,258)	(766)	272	382	374	772	512	(104)	(1,357)	(526)	60	(4,568)
	Tier 2														
181	Consumption Adjustment Optimization - Tier 2	w/p 620-5	(3,101)	(3,025)	(1,255)	(129)	(11)	(66)	(37)	(317)	(1,117)	(2,467)	(1,396)	(337)	(13,258)
182	Subtotal - Net Adjustments - Tier 2	In 181	(3,101)	(3,025)	(1,255)	(129)	(11)	(66)	(37)	(317)	(1,117)	(2,467)	(1,396)	(337)	(13,258)
183	Test Year Adjusted billing determinants/volume - Tier 1 (CCF)	In 175 + In 180	18,783	18,407	19,732	20,718	20,691	20,786	21,495	21,409	20,270	18,962	20,147	20,831	242,233
184	Test Year Adjusted billing determinants/volume - Tier 2 (CCF)	In 175 + In 180	217,391	210,137	207,268	203,061	207,398	212,156	248,430	268,479	232,801	231,108	239,433	215,498	2,693,160
185	Total Test Year Adjusted billing determinants/volume (CCF)	In 183 + In 184	236,173	228,545	227,000	223,779	228,089	232,942	269,925	289,888	253,071	250,070	259,581	236,330	2,935,392
	Account 523011 - Revenues From Public Authority														
	Tariff Customers														
186	Test Year billing determinants/volume	w/p 619	25,170	28,495	21,569	25,002	24,779	14,276	20,717	22,716	19,001	25,304	25,169	23,889	276,088
	Net Adjustments														
187	N/A		0	0	0	0	0	0	0	0	0	0	0	0	0
188	Subtotal - Net Adjustments		0	0	0	0	0	0	0	0	0	0	0	0	0
189	Total Test Year Adjusted billing determinants/volume (1,000 gallons) - Tariff Customers	In 186 + In 188	25,170	28,495	21,569	25,002	24,779	14,276	20,717	22,716	19,001	25,304	25,169	23,889	276,088
	Special Contract Customers														
190	Test Year billing determinants/volume	w/p 619	0	0	0	0	0	0	0	0	0	0	0	0	0
	Net Adjustments														
191	Satellite Billing Determinants	w/p 620-7	656,349	990,590	568,157	688,773	478,521	424,666	405,300	359,314	520,841	633,688	688,719	711,286	7,126,203
192	Subtotal - Net Adjustments	In 191	656,349	990,590	568,157	688,773	478,521	424,666	405,300	359,314	520,841	633,688	688,719	711,286	7,126,203
193	Total Test Year Adjusted billing determinants/volume (1,000 gallons) - Special Contract Customers	In 190 + In 192	656,349	990,590	568,157	688,773	478,521	424,666	405,300	359,314	520,841	633,688	688,719	711,286	7,126,203

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CWA Authority, Inc. June, 2017 - May, 2018																
			A	B	C	D	E	F	G	H	I	J	K	L	M	
Line No.	Rate Class	Reference	June 2017	July 2017	August 2017	September 2017	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018	April 2018	May 2018	Adjusted Test Year	
Volumes																
Commercial																
224	Test Year billing determinants/Commercial - Tier 1	w/p 619	41	41	41	41	41	40	40	41	41	40	40	41	486	
225	Test Year billing determinants/Commercial - Tier 2	w/p 619	481	595	304	304	404	601	867	744	733	992	921	642	7,589	
Net Adjustments																
Tier 1																
226	Minimum Volume (ccf) - Commercial	w/p 620-1	15	18	15	12	27	20	20	19	21	16	16	19	218	
227	Interdepartmental Billing Determinant Reclassification - Commercial - Tier 1	w/p 620-8	(56)	(58)	(56)	(53)	(68)	(60)	(60)	(60)	(61)	(56)	(56)	(60)	(704)	
228	Subtotal - Net Adjustments - Tier 1	In 226 + In 227	(41)	(41)	(41)	(41)	(41)	(41)	(41)	(41)	(41)	(41)	(41)	(41)	(486)	
Tier 2																
229	Interdepartmental Billing Determinant Reclassification - Commercial - Tier 2	w/p 620-8	(481)	(595)	(304)	(304)	(404)	(601)	(867)	(744)	(733)	(992)	(921)	(642)	(7,589)	
230	Subtotal - Net Adjustments - Tier 2	In 229	(481)	(595)	(304)	(304)	(404)	(601)	(867)	(744)	(733)	(992)	(921)	(642)	(7,589)	
231	Total Adjusted Test Year billing determinants/Commercial - Tier 1	In 224 + In 228	0	0	0	0	0	(0)	(0)	0	0	(0)	(0)	0	(1)	
232	Total Adjusted Test Year billing determinants/Commercial - Tier 2	In 225 + In 230	0	0	0	0	0	0	0	0	0	0	0	0	0	
233	Total Test Year Adjusted billing determinants/volume (CCF)	In 231 + In 232	0	0	0	0	0	(0)	(0)	0	0	(0)	(0)	0	(1)	
Self Reporting																
234	Test Year billing determinants - Tier 1 - Self Reporting	w/p 619	0	0	0	0	0	0	0	0	0	0	0	0	1	
235	Test Year billing determinants - Tier 2 - Self Reporting	w/p 619	0	0	1	0	0	0	1	0	0	0	0	0	4	
236	Test Year billing determinants - Tier 3 - Self Reporting	w/p 619	2	2	2	4	5	3	3	0	0	0	0	0	20	
237	Test Year billing determinants - Tier 4 - Self Reporting	w/p 619	11	15	15	21	20	17	11	0	0	0	0	0	110	
238	Total Test Year billing determinants - Self Reporting	In 234 + In 235 + In 236 + In 237	14	17	17	25	25	21	15	0	0	0	0	0	135	
Net Adjustments																
239	Consumption Adjustment Billing Determinants - Self Reporting	w/p 620-3	0	0	0	0	0	0	0	0	(35,495)	0	0	0	(35,495)	
240	Interdepartmental Billing Determinant Reclassification - Self-Reporting	w/p 620-8	(13,724)	(17,184)	(16,852)	(24,856)	(25,275)	(21,190)	(15,449)	(16,207)	10,647	(14,086)	(13,814)	(12,313)	(180,305)	
241	Subtotal - Net Adjustments	In 239 + In 240	(13,724)	(17,184)	(16,852)	(24,856)	(25,275)	(21,190)	(15,449)	(16,207)	(24,848)	(14,086)	(13,814)	(12,313)	(215,800)	
242	Total Adjusted Self-Reporting		(13,711)	(17,166)	(16,835)	(24,831)	(25,250)	(21,168)	(15,434)	(16,207)	(24,848)	(14,086)	(13,814)	(12,313)	(215,665)	
Account: 525011 - Interdepartmental Revenues Excessive Strength																
Biochemical Oxygen Demand																
243	Test Year billing determinants - BOD	w/p 619	0	0	0	0	0	0	0	0	0	0	0	0	0	
Net Adjustments																
244	Interdepartmental Billing Determinant Reclassification - BOD	w/p 620-8	0	0	0	0	0	0	0	0	0	0	0	0	0	
245	Subtotal - Net Adjustments		0	0	0	0	0	0	0	0	0	0	0	0	0	
246	Total Test Year Adjusted billing determinants - BOD (Pounds)	In 243 + In 245	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Suspended Solids																
247	Test Year billing determinants - TSS	w/p 619	0	8,422	4,860	11,201	7,154	6,791	12,638	1,640	66,241	56,565	60,948	197,319	433,779	
Net Adjustments																
248	Interdepartmental Billing Determinant Reclassification - TSS	w/p 620-8	0	(8,422)	(4,860)	(11,201)	(7,154)	(6,791)	(12,638)	(1,640)	(66,241)	(56,565)	(60,948)	(197,319)	(433,779)	
249	Subtotal - Net Adjustments	In 248	0	(8,422)	(4,860)	(11,201)	(7,154)	(6,791)	(12,638)	(1,640)	(66,241)	(56,565)	(60,948)	(197,319)	(433,779)	
250	Total Test Year Adjusted billing determinants - TSS (Pounds)		0	0	0	0	0	0	0	0	0	0	0	0	0	
Ammonia Nitrogen																
251	Test Year billing determinants - NH ₃ -N	w/p 619	143	35	0	132	885	433	285	302	515	0	416	411	3,557	
Net Adjustments																
252	Interdepartmental Billing Determinant Reclassification - NH ₃ -N	w/p 620-8	(143)	(35)	0	(132)	(885)	(433)	(285)	(302)	(515)	0	(416)	(411)	(3,557)	
253	Subtotal - Net Adjustments	In 252	(143)	(35)	0	(132)	(885)	(433)	(285)	(302)	(515)	0	(416)	(411)	(3,557)	
254	Total Test Year Adjusted billing determinants - NH ₃ -N (Pounds)	In 251 + In 253	0	0	0	0	0	0	0	0	0	0	0	0	0	

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CWA Authority, Inc. June, 2018 - May, 2019																
			A	B	C	D	E	F	G	H	I	J	K	L	M	
Line No.	Rate Class	Reference	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	Pro forma	
Account: 521110 - Flat Rate Revenues - Residential																
Services																
1	Test Year Adjusted billing determinants/volume - BOXR	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Test Year Adjusted billing determinants/volume - 1 Occupant	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Test Year Adjusted billing determinants/volume - 2 Occupants	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Test Year Adjusted billing determinants/volume - 3 Occupants	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Test Year Adjusted billing determinants/volume - 4 Occupants	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Adjustments																
Base Charges																
6	Total Pro forma billing determinants/volume - BOXR (Billing Instances)	In 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Total Pro forma billing determinants/volume - 1 Occupant (Billing Instances)	In 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Total Pro forma billing determinants/volume - 2 Occupants (Billing Instances)	In 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total Pro forma billing determinants/volume - 3 Occupants (Billing Instances)	In 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Total Pro forma billing determinants/volume - 4 Occupants (Billing Instances)	In 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Account: 521210 - Flat Rate Revenues - Commercial																
Services																
11	Test Year Adjusted billing determinants/volume - Flat Rate Commercial (Small)	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Test Year Adjusted billing determinants/volume - Flat Rate Commercial (Large)	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Total Adjusted Test Year	In 11 + In 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Adjustments																
14	Total Pro forma billing determinants/volume (Billing Instances)	In 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Total Pro forma billing determinants/volume (Billing Instances)	In 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	Total Pro forma (Billing Instances)	In 14 + In 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Account: 521212 - Flat Rate Revenues - Commercial FOG																
Services																
17	Total Test Year Adjusted billing determinants/volume	w/p 620	3,851	3,806	3,842	3,812	3,841	3,812	3,818	3,834	3,817	3,771	3,813	3,810	45,827	
Net Adjustments																
18	Billing Exceptions	w/p 630-1	(3)	1	3	(5)	2	1	0	0	(5)	2	2	(4)	(6)	
19	Total Pro forma billing determinants/volume (Billing Instances)	In 17 + In 18	3,848	3,807	3,845	3,807	3,843	3,813	3,818	3,834	3,812	3,773	3,815	3,806	45,821	
Account: 522110 - Residential Measured Services																
Services																
20	Test Year Adjusted billing determinants/volume	w/p 620	219,696	219,009	220,405	219,880	220,200	220,456	220,601	222,046	221,699	221,423	221,672	221,644	2,648,731	
Net Adjustments																
21	Billing Exceptions	w/p 630-1	(67)	78	195	(14)	(76)	26	(256)	93	(130)	(147)	46	(55)	(307)	
22	STEP	w/p 630-3	338	338	338	338	338	338	338	338	338	338	338	338	4,056	
23	Test Year Customer Growth Adjustment (Non-Industrial)	w/p 630-5	1,948	2,766	1,489	1,480	1,445	1,184	1,047	(398)	(52)	222	(26)	0	11,105	
24	Residential Flat Rate Adjustments	w/p 630-12	0	0	0	0	0	0	0	0	1	0	0	0	1	
25	Total Pro forma billing determinants/volume (Billing Instances)	In 21+ In 22+ In 23+ In 24	221,915	222,191	222,427	221,684	221,907	222,004	221,730	222,079	221,856	221,836	222,030	221,927	2,663,586	

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CWA Authority, Inc.
June, 2018 - May, 2019

			A	B	C	D	E	F	G	H	I	J	K	L	M
Line No.	Rate Class	Reference	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	Pro forma
Account: 522110 - Measured Revenue - Residential															
Volume															
26	Test Year Adjusted billing determinants/volume - Tier 1	w/p 620	1,211,887	1,205,830	1,203,313	1,202,684	1,197,187	1,204,580	1,264,633	1,295,152	1,204,540	1,189,162	1,206,590	1,226,336	14,611,894
27	Test Year Adjusted billing determinants/volume - Tier 2	w/p 620	69,183	69,813	66,627	65,563	63,430	70,671	136,273	195,370	182,111	140,361	117,267	80,207	1,256,876
Net Adjustments															
28	Billing Exceptions - Tier 1	w/p 630-1	(50)	274	333	(111)	(85)	284	(903)	427	(759)	(556)	(35)	(24)	(1,206)
29	Consumption Adjustment Redistribution Net Change First 10 CCF	w/p 630-2	2,382	(23)	1,473	1,059	1,706	1,555	(851)	(7,946)	(6,053)	(2,263)	12,215	2,426	5,680
30	STEP	w/p 630-3	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	16,224
31	Test Year Customer Growth Adjustment (Non-Industrial)	w/p 630-5	10,913	15,954	8,427	8,605	8,265	6,742	5,973	(2,624)	(464)	1,232	(201)	0	62,822
32	Residential Flat Rate Adjustments	w/p 630-12	97	(28)	(22)	(22)	100	(18)	(8)	(12)	(12)	7	(6)	70	146
33	Subtotal - Net Adjustments - Tier 1	In 28 + In 29 + In 30 + In 31+ In 32	14,694	17,529	11,562	10,883	11,338	9,915	5,563	(8,803)	(5,936)	(227)	13,324	3,824	83,666
34	Billing Exceptions - Tier 2	w/p 630-1	377	(154)	348	(330)	(132)	623	3,213	9,905	(11,646)	(219)	(2,061)	(47)	(123)
35	Consumption Adjustment Redistribution Net Change over 10 CCF	w/p 630-2	3,142	(388)	1,585	1,085	1,833	1,703	635	(8,501)	(7,961)	(2,487)	13,092	2,540	6,278
36	Test Year Customer Growth Adjustment (Non-Industrial)	w/p 630-5	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Subtotal - Net Adjustments - Tier 2	In 34 + In 35 + In 36	3,519	(542)	1,933	755	1,701	2,326	3,848	1,404	(19,607)	(2,706)	11,031	2,493	6,155
38	Total Pro forma billing determinants/volume - Tier 1 (CCF)	In 26 + In 33	1,226,581	1,223,359	1,214,875	1,213,567	1,208,525	1,214,495	1,270,196	1,286,349	1,198,603	1,188,934	1,219,915	1,230,160	14,695,560
39	Total Pro forma billing determinants/volume - Tier 2 (CCF)	In 27 + In 37	72,702	69,271	68,560	66,318	65,131	72,997	140,121	196,774	162,504	137,655	128,298	82,700	1,263,031
40	Total Pro forma (CCF)	In 38 + In 39	1,299,283	1,292,630	1,283,435	1,279,885	1,273,655	1,287,493	1,410,317	1,483,122	1,361,107	1,326,589	1,348,212	1,312,861	15,958,591
Account: 522210 - Measured Revenue - Commercial															
Services															
41	Test Year Adjusted billing determinants/volume	w/p 620	16,934	16,877	17,008	16,936	16,977	16,859	16,926	16,947	16,951	16,939	16,778	16,860	202,992
Net Adjustments															
42	Billing Exceptions - Small and Large	w/p 630-1	(7)	(2)	9	1	(1)	0	(1)	4	(9)	(5)	3	(5)	(13)
43	Test Year Customer Growth Adjustment (Non-Industrial)	w/p 630-5	(71)	(28)	(161)	(81)	(119)	(3)	(69)	(95)	(85)	(78)	70	0	(720)
44	New/Departing Customers, Post Test Year (Non-Industrial)	w/p 630-6	5	5	5	5	5	5	5	5	5	5	5	5	60
45	Total Pro forma billing determinants/volume (Billing Instances)	In 41 + In 42 + In 43 + In 44	16,861	16,852	16,861	16,861	16,862	16,861	16,861	16,861	16,862	16,861	16,856	16,860	202,319
Account: 522210 - Measured Revenue - Commercial															
Volume															
46	Test Year Adjusted billing determinants/volume - Tier 1	w/p 620	105,749	107,372	100,779	96,714	98,212	95,884	102,567	105,555	100,947	96,700	96,969	100,789	1,208,236
47	Test Year Adjusted billing determinants/volume - Tier 2	w/p 620	930,260	985,913	975,017	1,016,726	935,204	850,739	856,281	900,891	845,120	822,421	863,046	1,168,324	11,149,943
48	Total Test Year Adjusted billing determinants/volume	In 46 + In 47	1,036,009	1,093,285	1,075,797	1,113,440	1,033,416	946,622	958,848	1,006,446	946,068	919,121	960,015	1,269,112	12,358,179
Net Adjustments															
Tier 1															
49	Billing Exceptions - Tier 1	w/p 630-1	(22)	7	34	2	(28)	22	6	34	(38)	(23)	(5)	1	(10)
50	Consumption Adjustment Redistribution Net Change First 10 CCF	w/p 630-2	(7,515)	(6,528)	(4,065)	8,188	2,745	8,773	1,520	(6,495)	(5,966)	1,897	5,892	5,408	3,854
51	Test Year Customer Growth Adjustment (Non-Industrial)	w/p 630-5	(700)	(280)	(1,600)	(805)	(1,175)	(20)	(680)	(950)	(840)	(775)	705	0	(7,120)
52	New/Departing Customers, Post Test Year (Non-Industrial)	w/p 630-6	50	50	50	50	50	50	50	50	50	50	50	50	600
53	Subtotal - Net Adjustments - Tier 1	In 49 + In 50 + In 51+ In 52	(8,187)	(6,751)	(5,581)	7,435	1,592	8,825	896	(7,361)	(6,794)	1,149	6,642	5,459	(2,676)

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CWA Authority, Inc. June, 2018 - May, 2019																
			A	B	C	D	E	F	G	H	I	J	K	L	M	
Line No.	Rate Class	Reference	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	Pro forma	
Tier 2																
54	Billing Exceptions - Tier 2	w/p 630-1	(486)	120	3,183	(457)	(2,812)	196	(202)	580	(555)	(23)	1,839	(1,806)	(423)	
55	Consumption Adjustment Redistribution Net Change over 10 CCF	w/p 630-2	(8,016)	(7,070)	(4,389)	8,753	2,999	9,516	1,666	(6,958)	(6,505)	2,036	(31,565)	(287,151)	(326,684)	
56	Test Year Customer Growth Adjustment (Non-Industrial)	w/p 630-5	(3,481)	(1,212)	(8,290)	(4,339)	(6,061)	(243)	(3,473)	(4,925)	(4,303)	(3,944)	3,537	0	(36,734)	
57	New/Departing Customers, Post Test Year (Non-Industrial)	w/p 630-6	3,868	4,237	4,801	4,113	4,037	5,032	3,137	4,467	3,198	3,589	3,577	5,082	49,138	
58	Subtotal - Net Adjustments - Tier 2	In 54 + In 55 + In 56+ In 57	(8,115)	(3,925)	(4,695)	8,070	(1,837)	14,501	1,128	(6,836)	(8,165)	1,658	(22,612)	(283,875)	(314,703)	
59	Total Pro forma billing determinants/volume - Tier 1 (CCF)	In 46 + In 53	97,562	100,621	95,198	104,149	99,804	104,709	103,463	98,194	94,153	97,849	103,611	106,248	1,205,560	
60	Total Pro forma billing determinants/volume - Tier 2 (CCF)	In 47 + In 58	922,145	981,988	970,322	1,024,796	933,367	865,240	857,409	894,055	836,955	824,079	840,434	884,449	10,835,240	
61	Total Pro forma (CCF)	In 59 + In 60	1,019,707	1,082,609	1,065,521	1,128,945	1,033,171	969,948	960,872	992,249	931,109	921,928	944,045	990,696	12,040,800	
Account: 522310 - Measured Revenue - Industrial Services																
62	Test Year Adjusted billing determinants/volume - Tier 1	w/p 620	9	9	8	9	8	8	9	9	9	9	10	13	110	
63	Test Year Adjusted billing determinants/volume - Tier 2	w/p 620	23	24	26	27	29	29	29	29	29	28	27	23	323	
64	Test Year Adjusted billing determinants/volume - Tier 3	w/p 620	17	18	15	18	17	17	17	17	17	17	15	18	203	
65	Test Year Adjusted billing determinants/volume - Tier 4	w/p 620	1	1	1	5	2	1	3	2	2	2	2	2	24	
66	Total Test Year Adjusted billing determinants/volume - All Tiers	In 62 + In 63 + In 64 + In 65	50	52	50	59	56	55	58	57	57	56	54	56	660	
Net Adjustments																
Tier 1																
67	Billing Exceptions - Tier 1	w/p 630-1	0	0	0	0	0	0	0	0	0	0	0	0	0	
68	Tier and Rate Adjustment (Rate 2/5) - Tier 1	w/p 630-7	5	6	6	6	6	6	5	5	5	5	5	0	60	
69	Subtotal - Net Adjustments - Tier 1	In 67 + In 68	5	6	6	6	6	6	5	5	5	5	5	0	60	
Tier 2																
70	Billing Exceptions - Tier 2	w/p 630-1	1	(1)	0	0	0	0	0	0	0	0	0	0	0	
71	Tier and Rate Adjustment (Rate 2/5) - Tier 2	w/p 630-7	(1)	(1)	(1)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	0	(35)	
72	Subtotal - Net Adjustments - Tier 2	In 70 + In 71	0	(2)	(1)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	0	(35)	
Tier 3																
73	Billing Exceptions - Tier 3	w/p 630-1	0	0	0	0	0	0	0	0	0	0	0	0	0	
74	Tier and Rate Adjustment (Rate 2/5) - Tier 3	w/p 630-7	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	0	(11)	
75	Subtotal - Net Adjustments - Tier 3	In 73 + In 74	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	0	(11)	
Tier 4																
76	Billing Exceptions - Tier 4	w/p 630-1	0	0	0	0	0	0	0	0	0	0	0	0	0	
77	Tier and Rate Adjustment (Rate 2/5) - Tier 4	w/p 630-7	0	0	0	0	0	0	0	0	0	0	0	0	0	
78	Subtotal - Net Adjustments - Tier 4	In 76 + In 77	0	0	0	0	0	0	0	0	0	0	0	0	0	
79	Pro forma billing determinants/volume - Tier 1 (Billing Instances)	In 62 + In 69	14	15	14	15	14	14	14	14	14	14	15	13	170	
80	Pro forma billing determinants/volume - Tier 2 (Billing Instances)	In 63 + In 72	23	22	25	23	25	25	25	25	25	24	23	23	288	
81	Pro forma billing determinants/volume - Tier 3 (Billing Instances)	In 64 + In 75	16	17	14	17	16	16	16	16	16	16	14	18	192	
82	Pro forma billing determinants/volume - Tier 4 (Billing Instances)	In 65 + In 78	1	1	1	5	2	1	3	2	2	2	2	2	24	
83	Total Pro forma billing determinants/volume (Billing Instances)	In 79 + In 80 + In 81 + In 82	54	55	54	60	57	56	58	57	57	56	54	56	674	

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CWA Authority, Inc. June, 2018 - May, 2019																
			A	B	C	D	E	F	G	H	I	J	K	L	M	
Line No.	Rate Class	Reference	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	Pro forma	
Account: 522310 - Measured Revenue - Industrial Volume																
84	Test Year Adjusted billing determinants/volume - Tier 1	w/p 620	45,885	39,013	47,518	66,950	52,065	39,371	34,424	35,570	33,471	35,055	43,800	50,318	523,439	
Net Adjustments																
85	Billing Exceptions - Tier 1 - Tier 4	w/p 630-1	150	(150)	0	0	0	0	0	0	0	0	0	0	0	0
86	Consumption Adjustment Redistribution Net Change - Minimum	w/p 630-2	(1,700)	(226)	2,269	134	0	(232)	232	0	0	0	(275)	275	477	
87	QSSD Adjustment	w/p 630-4	(1,429)	(1,374)	(1,358)	(1,224)	(1,381)	(1,365)	(1,175)	(1,175)	(1,736)	(1,351)	(4,121)	(4,210)	(21,899)	
88	Tier and Rate Adjustment (Rate 2/5)	w/p 630-7	417	580	380	18	41	29	0	0	0	0	0	0	1,465	
89	Total Pro forma billing determinants/volume (CCF)	In 84 + In 85 + In 86 + In 87 + In 88	43,324	37,842	48,809	65,879	50,725	37,802	33,481	34,395	31,735	33,704	39,404	46,383	503,482	
Account: 522311 - Measured Revenue - Industrial Excessive Strength Self-Reporting Biochemical Oxygen Demand																
90	Test Year Adjusted billing determinants/volume - BOD	w/p 620	1,850,025	2,292,860	2,272,051	2,048,290	1,840,043	2,313,896	2,026,676	2,270,278	2,747,830	3,536,703	2,158,023	1,819,286	27,175,960	
Net Adjustments																
91	Billing Exceptions - BOD	w/p 630-1	82	(20,622)	0	0	0	0	4,319	(2,901)	45,475	(46,893)	229,149	264,271	472,880	
92	Consumption Adjustment Redistribution - BOD	w/p 630-2	607,669	18,976	(16,278)	(196,588)	238,527	0	(2,500)	16,000	(38,058)	(28,542)	66,600	(500)	665,306	
93	Subtotal - Net Adjustments	In 91 + In 92	607,751	(1,646)	(16,278)	(196,588)	238,527	0	1,819	13,099	7,417	(75,435)	295,749	263,771	1,138,186	
94	Pro forma billing determinants/volume - BOD (Pounds)	In 90 + In 93	2,457,776	2,291,214	2,255,773	1,851,702	2,078,570	2,313,896	2,028,495	2,283,377	2,755,247	3,461,268	2,453,772	2,083,057	28,314,146	
Total Suspended Solids																
95	Test Year Adjusted billing determinants/volume - TSS	w/p 620	1,178,111	1,047,195	933,604	772,287	654,373	862,646	1,430,239	1,468,640	1,534,433	2,372,104	1,380,448	924,567	14,558,647	
Net Adjustments																
96	Billing Exceptions - TSS	w/p 630-1	7,928	(7,859)	(69)	0	0	0	0	104	4,758	(4,862)	3,025	233,900	236,925	
97	Consumption Adjustment Redistribution - TSS	w/p 630-2	(26)	(612)	638	(10,305)	9,955	0	(7,750)	8,100	(1,600)	(7,317)	8,917	0	0	
98	Subtotal - Net Adjustments	In 96 + In 97	7,902	(8,471)	569	(10,305)	9,955	0	(7,750)	8,204	3,158	(12,179)	11,942	233,900	236,925	
99	Pro forma billing determinants/volume - TSS (Pounds)	In 95 + In 98	1,186,013	1,038,724	934,173	761,982	664,328	862,646	1,422,489	1,476,844	1,537,591	2,359,925	1,392,390	1,158,467	14,795,572	
Ammonia Nitrogen																
100	Test Year Adjusted billing determinants/volume - NH ₃ -N	w/p 620	59,179	60,390	60,590	26,325	32,387	40,357	50,421	52,094	22,620	34,488	39,605	96,255	574,711	
Net Adjustments																
101	Billing Exceptions - NH ₃ -N	w/p 630-1	696	(660)	(36)	0	0	0	4	(4)	36	(36)	4,648	(4,572)	76	
102	Consumption Adjustment Redistribution - NH ₃ -N	w/p 630-2	(1,240)	24,736	(34,440)	34,243	212	0	(12)	12	0	(35)	35	0	23,511	
103	Subtotal - Net Adjustments	In 101 + In 102	(544)	24,076	(34,476)	34,243	212	0	(8)	8	36	(71)	4,683	(4,572)	23,587	
104	Pro forma billing determinants/volume - NH ₃ -N (Pounds)	In 100 + In 103	58,635	84,466	26,114	60,568	32,599	40,357	50,413	52,102	22,656	34,417	44,288	91,683	598,298	
Account: 522312 - Measured Revenue - Industrial Self-Reporter Services																
105	Test Year Adjusted billing determinants/volume - Tier 1	w/p 620	50	67	59	59	60	56	54	56	55	56	51	65	688	
106	Test Year Adjusted billing determinants/volume - Tier 2	w/p 620	103	105	96	92	92	92	91	93	90	95	88	88	1,125	
107	Test Year Adjusted billing determinants/volume - Tier 3	w/p 620	67	92	82	85	82	88	82	85	84	85	74	87	993	
108	Test Year Adjusted billing determinants/volume - Tier 4	w/p 620	40	49	42	43	42	42	41	43	42	42	35	33	494	
109	Total Test Year Adjusted billing determinants/volume	In 105 + In 106 + In 107 + In 108	260	312	279	279	276	278	268	277	271	278	248	273	3,299	

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CWA Authority, Inc. June, 2018 - May, 2019																
			A	B	C	D	E	F	G	H	I	J	K	L	M	
Line No.	Rate Class	Reference	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	Pro forma	
<i>Tier 1</i>																
Net Adjustments																
110	Billing Exceptions - Tier 1	w/p 630-1	9	(7)	(2)	1	0	1	(1)	(1)	0	0	4	2	6	
111	Tier and Rate Adjustment (Rate 2/5) - Tier 1	w/p 630-7	15	14	14	14	14	14	15	15	15	15	15	0	160	
112	Subtotal - Net Adjustments - Tier 1	ln 110 + ln 111	24	7	12	15	14	15	14	14	15	15	19	2	166	
113	Pro forma billing determinants/volumes - Tier 1 (Billing Instances)	ln 105 + ln 112	74	74	71	74	74	71	68	70	70	71	70	67	854	
<i>Tier 2</i>																
Net Adjustments																
114	Billing Exceptions - Tier 2	w/p 630-1	7	(8)	(1)	0	1	(1)	0	1	3	(4)	9	0	7	
115	Tier and Rate Adjustment (Rate 2/5) - Tier 2	w/p 630-7	(8)	(8)	(8)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	0	(64)	
116	Subtotal - Net Adjustments - Tier 2	ln 114 + ln 115	(1)	(16)	(9)	(5)	(4)	(6)	(5)	(4)	(2)	(9)	4	0	(57)	
117	Pro forma billing determinants/volumes - Tier 2 (Billing Instances)	ln 106 + ln 116	102	89	87	87	88	86	86	89	88	86	92	88	1,068	
<i>Tier 3</i>																
Net Adjustments																
118	Billing Exceptions - Tier 3	w/p 630-1	10	(11)	0	(1)	(1)	1	0	(1)	2	(2)	11	(3)	5	
119	Tier and Rate Adjustment (Rate 2/5) - Tier 3	w/p 630-7	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	0	(22)	
120	Subtotal - Net Adjustments - Tier 3	ln 118 + ln 119	8	(13)	(2)	(3)	(3)	(1)	(2)	(3)	0	(4)	9	(3)	(17)	
121	Pro forma billing determinants/volumes - Tier 3 (Billing Instances)	ln 107 + ln 120	75	79	80	82	79	87	80	82	84	81	83	84	976	
<i>Tier 4</i>																
Net Adjustments																
122	Billing Exceptions - Tier 4	w/p 630-1	0	0	0	0	0	0	0	0	0	0	0	0	0	
123	Tier and Rate Adjustment (Rate 2/5) - Tier 4	w/p 630-7	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	0	(88)	
124	Subtotal - Net Adjustments - Tier 4	ln 122 + ln 123	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	0	(88)	
125	Pro forma billing determinants/volumes - Tier 4 (Billing Instances)	ln 108 + ln 124	32	41	34	35	34	34	33	35	34	34	27	33	406	
126	Total Pro forma billing determinants/volume (Billing Instances)	ln 113+ ln 117 + ln 121 + ln 125	283	282	272	278	275	278	267	276	276	272	272	272	3,303	
Account: 522312 - Measured Revenue - Industrial Self-Reporter Volume																
127	Test Year Adjusted billing determinants/volume	w/p 620	480,035	505,207	475,900	559,893	510,999	509,703	433,612	435,207	493,040	556,944	421,890	482,081	5,864,511	
Net Adjustments																
128	Billing Exceptions - Tier 1 - Tier 4	w/p 630-1	20,516	(21,876)	(67)	1,871	(1,403)	(240)	420	(560)	992	(1,130)	16,048	(2,826)	11,744	
129	Consumption Adjustment Redistribution	w/p 630-2	12,833	64,549	(43)	(10,961)	20,648	(7,497)	(35,800)	31,891	1,873	7,306	(20,780)	12,629	76,648	
130	Tier and Rate Adjustment (Rate 2/5) - Tier 1	w/p 630-7	(417)	(580)	(380)	(18)	(41)	(29)	0	0	0	0	0	0	(1,465)	
131	Self-Reporter Minimum Volume	w/p 630-10	(680)	(3,219)	(1,015)	(327)	(284)	(220)	(285)	(255)	(210)	(246)	(300)	(78)	(7,119)	
132	Total Pro forma billing determinants/volume (CCF)	ln 127 + ln 128 + ln 129 + ln 130 + ln 131	512,287	544,081	474,395	550,459	529,919	501,716	397,946	466,282	495,695	562,874	416,858	491,806	5,944,319	
Account: 522313 - Measured Revenue - Industrial Volume																
133	Test Year Adjusted billing determinants/volume	w/p 620	278	316	236	204	179	185	197	145	167	195	253	248	2,604	
134	Test Year Adjusted billing determinants/volume	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	0	
135	Total Test Year Adjusted billing determinants/volume	ln 133 + ln 134	278	316	236	204	179	185	197	145	167	195	253	248	2,604	

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			CWA Authority, Inc. June, 2018 - May, 2019														
			A	B	C	D	E	F	G	H	I	J	K	L	M		
Line No.	Rate Class	Reference	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	Pro forma		
Septic																	
Net Adjustments																	
136	Consumption Adjustment Redistribution - Septic Haulers	w/p 630-2	111	0	0	0	0	0	0	0	0	0	0	(1)	110		
137	Subtotal - Net Adjustments - Septic	In 136	111	0	0	0	0	0	0	0	0	0	0	(1)	110		
138	Pro forma billing determinants/volume - Septic Haulers	In 133 + In 137	389	316	236	204	179	185	197	145	167	195	253	247	2,714		
Grease																	
139	Consumption Adjustment Redistribution - Grease Haulers	w/p 630-2	0	0	0	0	0	0	0	0	0	0	0	0	0		
140	Subtotal - Net Adjustments - Septic	In 139	0	0	0	0	0	0	0	0	0	0	0	0	0		
141	Pro forma billing determinants/volume - Grease Haulers	In 134 + In 140	0	0	0	0	0	0	0	0	0	0	0	0	0		
142	Total Pro forma billing determinants/volume (1,000 gallons)	In 138 + In 141	389	316	236	204	179	185	197	145	167	195	253	247	2,714		
Account: 522314 - Measured Revenue - Industrial Steam Discharge																	
Volume																	
143	Test Year Adjusted billing determinants/volume	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	0		
Net Adjustments																	
144	Total Pro forma billing determinants/volume (CCF)	In 143	0	0	0	0	0	0	0	0	0	0	0	0	0		
Account: 522510 - Measured Revenue - Multiple Family Services																	
145	Test Year Adjusted billing determinants/volume	w/p 620	2,829	2,840	2,830	2,841	2,845	2,841	2,836	2,844	2,838	2,838	2,840	2,819	34,041		
Net Adjustments																	
146	Billing Exceptions	w/p 630-1	(5)	3	2	0	4	(2)	(1)	1	(5)	(2)	1	3	(1)		
147	Test Year Customer Growth Adjustment (Non-Industrial)	w/p 630-5	(10)	(21)	(11)	(22)	(26)	(22)	(17)	(25)	(19)	(19)	(21)	0	(213)		
148	Pro forma billing determinants/volume (Billing Instances)	In 145+ In 146 + In 147	2,814	2,822	2,821	2,819	2,823	2,817	2,818	2,820	2,814	2,817	2,820	2,822	33,827		
Account: 522510 - Multi-Family Treatment																	
Volume																	
149	Test Year Adjusted billing determinants/volume - Tier 1	w/p 620	18,783	18,407	19,732	20,718	20,691	20,786	21,495	21,409	20,270	18,962	20,147	20,831	242,233		
150	Test Year Adjusted billing determinants/volume - Tier 2	w/p 620	217,391	210,137	207,268	203,061	207,398	212,156	248,430	268,479	232,801	231,108	239,433	215,498	2,693,160		
151	Total Test Year Adjusted billing determinants/volume	In 149 + In 150	236,173	228,545	227,000	223,779	228,089	232,942	269,925	289,888	253,071	250,070	259,581	236,330	2,935,392		
Net Adjustments																	
Tier 1																	
152	Billing Exceptions - Tier 1	w/p 630-1	(27)	25	6	(11)	23	(10)	(1)	(4)	(15)	(3)	(7)	13	(11)		
153	Consumption Adjustment Redistribution	w/p 630-2	814	2,223	1,072	65	(45)	24	(482)	(1,063)	331	680	(372)	(1,129)	2,118		
154	Test Year Customer Growth Adjustment (Non-Industrial)	w/p 630-5	(100)	(210)	(110)	(220)	(260)	(220)	(170)	(250)	(190)	(190)	(210)	0	(2,130)		
155	Subtotal - Net Adjustments - Tier 1	In 152+ In 153 + In 154	687	2,038	968	(166)	(282)	(206)	(653)	(1,317)	126	487	(589)	(1,116)	(23)		
Tier 2																	
156	Billing Exceptions - Tier 2	w/p 630-1	(18)	0	16	(16)	44	(41)	(3)	133	(131)	(1)	(1)	0	(18)		
157	Consumption Adjustment Redistribution	w/p 630-2	1,374	2,541	1,162	69	(48)	23	(524)	(1,151)	362	733	(404)	(1,222)	2,915		
158	Test Year Customer Growth Adjustment (Non-Industrial)	w/p 630-5	(762)	(1,601)	(839)	(1,677)	(1,982)	(1,677)	(1,296)	(1,906)	(1,448)	(1,448)	(1,601)	0	(16,237)		
159	Subtotal - Net Adjustments - Tier 2	In 156+ In 157 + In 158	594	940	339	(1,624)	(1,986)	(1,695)	(1,823)	(2,924)	(1,217)	(716)	(2,006)	(1,222)	(13,340)		

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			CWA Authority, Inc. June, 2018 - May, 2019												
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Line No.	Rate Class	Reference	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	Pro forma
160	Test Year Adjusted billing determinants/volume - Tier 1 (CCF)	In 149 + In 155	19,470	20,445	20,700	20,552	20,409	20,580	20,842	20,092	20,396	19,449	19,558	19,715	242,210
161	Test Year Adjusted billing determinants/volume - Tier 2 (CCF)	In 150 + In 159	217,985	211,077	207,607	201,437	205,412	210,461	246,607	265,555	231,584	230,392	237,427	214,276	2,679,820
162	Total Pro forma billing determinants/volume (CCF)	In 160 + In 161	237,454	231,523	228,307	221,989	225,821	231,041	267,449	285,647	251,980	249,841	256,986	233,992	2,922,029
Account: 523011 - Revenues From Public Authority Tariff Customers															
163	Test Year Adjusted billing determinants/volume	w/p 620	25,170	28,495	21,569	25,002	24,779	14,276	20,717	22,716	19,001	25,304	25,169	23,889	276,088
Net Adjustments															
164	Total Pro forma billing determinants/volume (1,000 gallons)	In 163	25,170	28,495	21,569	25,002	24,779	14,276	20,717	22,716	19,001	25,304	25,169	23,889	276,088
Special Contract Customers															
165	Test Year Adjusted billing determinants/volume	w/p 620	656,349	990,590	568,157	688,773	478,521	424,666	405,300	359,314	520,841	633,688	688,719	711,286	7,126,203
Net Adjustments															
166	Billing Exceptions	w/p 630-1	0	0	0	0	0	0	(5,981)	67,575	(61,594)	0	0	123,362	123,362
167	Total Pro forma billing determinants/volume (1,000 gallons)	In 165 + In 166	656,349	990,590	568,157	688,773	478,521	424,666	399,318	426,889	459,247	633,688	688,719	834,648	7,249,565
Account: 523012 - BOD - Public Authority Strength Surcharge Volume															
168	Total Test Year Adjusted billing determinants - BOD (Pounds)	w/p 620	16,019	32,634	45,215	34,051	42,226	28,397	36,632	(3,697)	40,443	0	0	0	271,920
169	Total Test Year Adjusted billing determinants - TSS (Pounds)	w/p 620	61,220	64,900	104,283	89,899	87,923	41,999	60,400	(11,859)	76,284	0	0	0	575,049
170	Total Test Year Adjusted billing determinants - NH ₃ -N (Pounds)	w/p 620	6,898	9,159	5,457	12,120	8,772	7,476	10,416	(2,722)	12,688	0	0	0	70,264
Net Adjustments															
171	Special Contract - Excessive Strength Adjustment - BOD	w/p 630-1	0	0	0	0	0	0	(3,697)	44,140	(40,443)	0	0	0	0
172	Special Contract - Excessive Strength Adjustment - TSS	w/p 630-1	0	0	0	0	0	0	(11,859)	88,143	(76,284)	0	0	0	0
173	Special Contract - Excessive Strength Adjustment - NH ₃ -N	w/p 630-1	0	0	0	0	0	0	(2,722)	15,410	(12,688)	0	0	0	0
174	Special Contract - Excessive Strength Adjustment - BOD	w/p 630-9	(16,019)	(32,634)	(45,215)	(34,051)	(42,226)	(28,397)	(32,935)	(40,443)	0	0	0	0	(271,920)
175	Special Contract - Excessive Strength Adjustment - TSS	w/p 630-9	(61,220)	(64,900)	(104,283)	(89,899)	(87,923)	(41,999)	(48,541)	(76,284)	0	0	0	0	(575,049)
176	Special Contract - Excessive Strength Adjustment - NH ₃ -N	w/p 630-9	(6,898)	(9,159)	(5,457)	(12,120)	(8,066)	(5,177)	(6,778)	(10,274)	0	0	0	0	(63,929)
177	Total Pro forma billing determinants - BOD (Pounds)	In 168	0	0	0	0	(0)	0	0	0	0	0	0	0	(0)
178	Total Pro forma billing determinants - TSS (Pounds)	In 169	0	0	(0)	(0)	0	0	0	(0)	(0)	0	0	0	0
179	Total Pro forma billing determinants - NH ₃ -N (Pounds)	In 170	0	0	(0)	0	706	2,299	916	2,414	0	0	0	0	6,336
Account: 525010 - Interdepartmental Services															
180	Test Year Adjusted billing determinants - Tier 1 - Self Reporting	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	0
181	Test Year Adjusted billing determinants - Tier 2 - Self Reporting	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	0
182	Test Year Adjusted billing determinants - Tier 3 - Self Reporting	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	0
183	Test Year Adjusted billing determinants - Tier 4 - Self Reporting	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	0
184	Total Test Year Adjusted billing determinants - Self Reporting	In 180 + In 181 + In 182 + In 183	0	0	0	0	0	0	0	0	0	0	0	0	0
185	Test Year billing determinants/Commercial	w/p 620	0	0	0	0	0	0	0	0	0	0	0	0	

[illegible]

Explanation of Use of Index on Tiered Volumes

When one compares the Tier 1 rate to the Tier 2 rate, one sees that there is a certain ratio among the two numbers. That ratio is approximately 1.0825 – i.e. the ratio of the current Tier 2 rate-to-Tier 1 rate (8.6414 / 7.9827). In order to change the tier rates and maintain this ratio, the following system of equations must be solved:

$$11,614,948x + 11,064,371y = 1,042,315 \text{ (equation 1)}$$

$$y = 1.0825x \text{ (equation 2)}$$

where x equals the Tier 1 rate reduction; and

y equals the Tier 2 rate reduction.

It is important to note that the 1.0825 is an approximate representation of the resulting quotient. The number has been rounded to four places to the right of the decimal.

Using Equation 2 to substitute y in Equation 1 yields the following:

$$11,614,948x + 11,064,371(1.0825x) = 1,042,315$$

Simplifying this yields the following:

$$11,614,948x + 11,977,268x = 1,042,315$$

Simplifying further yields the following:

$$23,592,216x = 1,042,315$$

And, this is the formula that is shown on Schedule 2, line 2 of Petitioner's Compliance Filing dated November 18, 2019.

Solving for x results in the following:

$$x = 0.0442$$

The ratio of 1.0825 is seen on Schedule 3 when comparing the ratio between the proposed rates – i.e. 8.5936 / 7.9385 equals 1.0825.
