2022 FIVE YEAR MOVING AVERAGE STATUSREPORT

July, 2022

MEMBER	Fractional Share of the Contribution ("Percent Share")						5 Year Moving Average	
	MEASURING YEAR (Oct-Sep)						Current Average (2)	Previous Average (3)
	2017	2018	2019	2020	2021	2022 (1)		
Clark	7.44%	10.17%	8.33%	8.02%	7.49%	8.23%	8.45%	8.29%
Cranford	6.69%	7.25%	9.95%	11.08%	11.79%	10.48%	10.11%	9.35%
Garwood	3.31%	2.74%	2.33%	2.22%	2.23%	3.16%	2.54%	2.57%
Kenilworth	5.61%	4.09%	5.30%	3.62%	3.59%	3.47%	4.01%	4.44%
Mountainside	3.88%	3.68%	2.90%	2.44%	2.35%	2.66%	2.81%	3.05%
Rahway	13.71%	14.04%	18.01%	22.27%	21.64%	17.34%	18.66%	17.93%
Roselle Park	1.04%	0.84%	1.61%	2.08%	1.73%	0.90%	1.43%	1.46%
Scotch Plains	5.15%	5.88%	4.56%	4.23%	3.86%	3.92%	4.49%	4.74%
Springfield	9.18%	9.28%	9.28%	9.25%	9.20%	10.28%	9.46%	9.24%
Westfield	16.26%	14.79%	15.64%	14.32%	14.46%	15.83%	15.01%	15.09%
Woodbridge	27.73%	27.24%	22.09%	20.47%	21.66%	23.72%	23.03%	23.84%
	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Notes:

(1) Figures computed based on Flow, BOD and TSS data received as of reporting month.

(2) Five year moving average consisting of 2018, 2019, 2020, 2021, and month to date for 2022

(3) Five year moving average consisting of 2017, 2018, 2019, 2020, and 2021

2022 Town Annual Percent Share

July, 2022

Member	Average Daily Flow (MGD)		Biochemical Oxygen Demand (Tons/Day)		Total Suspended Solids (Tons/Day)		Annual Percent Share	
	2021	2022	2021	2022	2021	2022	2021	2022
Clark	1.70	1.63	1.70	1.54	1.48	1.34	7.49%	8.23%
Cranford	3.54	2.71	2.23	1.51	2.75	1.77	11.79%	10.48%
Garwood	0.66	0.78	0.41	0.47	0.51	0.54	2.23%	3.16%
Kenilworth	1.04	0.85	0.65	0.52	0.81	0.60	3.59%	3.47%
Mountainside	0.72	0.69	0.45	0.38	0.56	0.45	2.35%	2.66%
Rahway	6.20	4.15	3.97	2.61	4.87	3.03	21.64%	17.34%
Roselle Park	0.49	0.22	0.33	0.13	0.40	0.16	1.73%	0.90%
Scotch Plains	1.17	1.02	0.74	0.56	0.91	0.66	3.86%	3.92%
Springfield	2.69	2.55	1.69	1.52	2.09	1.77	9.20%	10.28%
Westfield	3.98	3.66	2.51	2.44	3.09	2.80	14.46%	15.83%
Woodbridge (1)(2)	6.11	5.89	4.16	3.47	5.14	4.11	21.66%	23.72%
Totals:	28.28	24.14	18.84	15.15	22.61	17.23	100.00%	100.00%

Equations:

Assumptions: 200 gpd flow per unit at 200 mg/L BOD and TSS concentrations

(a) Flow Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD)

(b) BOD Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD) x (200 mg/L) x (8.34 lbs/g) / (2000 lbs/ton)

(c) TSS Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD) x (200 mg/L) x (8.34 lbs/g) / (2000 lbs/ton)

Notes:

(1) Woodbridge MGD Adjustment includes a 0.50 MGD flow credit, per section 11.5 of the 2021 Agreement

(2) Woodbridge BOD and TSS Adjustment includes a 833 lbs/day credit, per section 11.5 of the 2021 Agreement

2022 Intermunicipal Adjustments Report

July, 2022

Member	Dwelling Unit Quantity			Average Daily Flow (MGD)			Average BOD (Tons/Day)			Average TSS (Tons/Day)		
	Bill To	Credit To	Total Adjustment	Average Flow	Adjustment (a)	Final Flow	Average BOD	Adjustment (b)	Final BOD	Average TSS	Adjustment (c)	Final TSS
Clark	479	0	479	1.53	0.0958	1.63	1.46	0.0799	1.54	1.26	0.0799	1.34
Cranford	242	1,092	-850	2.88	-0.1700	2.71	1.65	-0.1418	1.51	1.91	-0.1418	1.77
Garwood	54	110	-56	0.79	-0.0112	0.78	0.48	-0.0093	0.47	0.55	-0.0093	0.54
Kenilworth	62	38	24	0.84	0.0048	0.85	0.52	0.0040	0.52	0.60	0.0040	0.60
Mountainside	106	339	-233	0.74	-0.0466	0.69	0.42	-0.0389	0.38	0.49	-0.0389	0.45
Rahway	13	15	-2	4.15	-0.0004	4.15	2.61	-0.0003	2.61	3.03	-0.0003	3.03
Roselle Park	38	117	-79	0.23	-0.0158	0.22	0.14	-0.0132	0.13	0.17	-0.0132	0.16
Scotch Plains	66	413	-347	1.09	-0.0694	1.02	0.62	-0.0579	0.56	0.72	-0.0579	0.66
Springfield	0	187	-187	2.58	-0.0374	2.55	1.55	-0.0312	1.52	1.80	-0.0312	1.77
Westfield	1,425	175	1,250	3.41	0.2500	3.66	2.23	0.2085	2.44	2.59	0.2085	2.80
Woodbridge (1)(2)	10	9	1	6.39	-0.4998	5.89	3.89	-0.4163	3.47	4.53	-0.4163	4.11
Totals:	2,495	2,495	0	24.64	-0.5000	24.14	15.57	-0.4165	15.15	17.65	-0.4165	17.23

Equations:

Assumptions: 200 gpd flow per unit at 200 mg/L BOD and TSS concentrations

(a) Flow Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD)

(b) BOD Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD) x (200 mg/L) x (8.34 lbs/g) / (2000 lbs/ton)

(c) TSS Adj: [Total Adjusted Dwelling Units] x (0.0002 MGD) x (200 mg/L) x (8.34 lbs/g) / (2000 lbs/ton)

Notes:

(1) Woodbridge MGD Adjustment includes a 0.50 MGD flow credit, per section 11.5 of the 2021 Agreement

(2) Woodbridge BOD and TSS Adjustment includes a 833 lbs/day credit, per section 11.5 of the 2021 Agreement

Member BOD and TSS Loading Contribution

July, 2022

Member	Average Daily Industrial Loading (1)		Average Daily Flow (MGD)	Inter-Mun Adj (2) (MGD)	Adj. Avg. Daily Flow (MGD)	Member Contribution			
						Domestic Loading		Total Loading	
	BOD (Tons/Day)	TSS (Tons/Day)				BOD (Tons/Day)	TSS (Tons/Day)	BOD (Tons/Day)	TSS (Tons/Day)
Clark	0.47	0.11	1.53	0.0958	1.63	0.99	1.15	1.46	1.26
Cranford	0.00	0.00	2.88	-0.1700	2.71	1.65	1.91	1.65	1.91
Garwood	0.00	0.00	0.79	-0.0112	0.78	0.48	0.55	0.48	0.55
Kenilworth	0.00	0.00	0.84	0.0048	0.85	0.52	0.60	0.52	0.60
Mountainside	0.00	0.00	0.74	-0.0466	0.69	0.42	0.49	0.42	0.49
Rahway	0.08	0.09	4.15	-0.0004	4.15	2.53	2.94	2.61	3.03
Roselle Park	0.01	0.02	0.23	-0.0158	0.22	0.13	0.15	0.14	0.17
Scotch Plains	0.00	0.00	1.09	-0.0694	1.02	0.62	0.72	0.62	0.72
Springfield	0.00	0.00	2.58	-0.0374	2.55	1.55	1.80	1.55	1.80
Westfield	0.00	0.00	3.41	0.2500	3.66	2.23	2.59	2.23	2.59
Woodbridge	0.00	0.01	6.39	0.0002	6.39	3.89	4.52	3.89	4.53
Totals:	0.56	0.23	24.64	0.00	24.64	15.02	17.43	15.57	17.65

Notes:

(1) As measured and reported by the RVSA SIU IPP Industrial Loading

(2) Does not include the 0.50 MGD Woodbridge Credit

2022 Plant Influent Loading

July, 2022

	2021			2022									Average T/D
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Plant Influent Flow and Sample Data													
Avg. Daily Flow (MGD) (1)	25.48	23.07	20.33	25.22	27.7	25	29.37	27.9	24.16	18.54			24.68
Avg. BOD (mg/L) (2)	148	152	176	156	141	154	137	141	153	171			153
Avg. TSS (mg/L) (2)	172	159	181	166	155	171	153	169	184	227			174
Total Influent Loading (a)(b)													
BOD (Tons/Day)	15.73	14.62	14.92	16.41	16.29	16.05	16.78	16.45	15.41	13.22			15.59
TSS (Tons/Day)	18.28	15.30	15.34	17.46	17.90	17.83	18.74	19.66	18.54	17.55			17.66

Total Industrial Contribution (3)

IPP BOD (Tons/Day)	0.57
IPP TSS (Tons/Day)	0.23

Total Domestic Influent Loading

BOD (Tons/Day)	15.02
TSS (Tons/Day)	17.43

Equations:

(a) BOD Loading (Tons/Day) = Average Daily Flow (MGD) x Avg BOD (mg/L) x (8.34 lbs/gal) / (2000 lbs/ton)

(b) TSS Loading (Tons/Day) = Average Daily Flow (MGD) x Avg TSS (mg/L) x (8.34 lbs/gal) / (2000 lbs/ton)

Notes:

(1) Average Daily Flow = RV12 + RV14 + RV31

(2) BOD and TSS Concentrations measured at the RVSA Raw Influent Sampler as reported to the NJDEP

(3) As measured and reported by the RVSA SIU IPP Industrial Loading

2022 Average Daily Flow Report

July, 2022

	2021			2022									Average
Meter #	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	To Date
RV01	2.67	2.54	2.35	2.52	2.76	2.57	2.92	2.83	2.57	2.14			2.59
RV02	3.70	3.51	3.23	3.41	3.66	3.43	3.87	3.76	3.54	3.01			3.51
RV03	1.88	1.64	1.47	1.71	1.94	1.80	1.79	1.63	1.37	1.10			1.63
RV04	0.24	0.22	0.18	0.20	0.22	0.22	0.24	0.25	0.23	0.19			0.22
RV05	0.28	0.25	0.24	0.26	0.29	0.26	0.31	0.28	0.24	0.19			0.26
RV06	0.54	0.45	0.43	0.50	0.57	0.53	0.24	0.13	0.11	0.09			0.36
RV07	0.69	0.64	0.53	0.62	0.68	0.65	0.76	0.76	0.65	0.56			0.66
RV09	3.71	3.36	2.92	3.40	3.94	3.58	4.51	4.44	3.81	2.95			3.66
RV10	8.50	7.94	7.15	8.20	9.09	8.46	9.84	9.00	7.95	6.36			8.25
RV11	13.14	12.25	11.02	13.27	14.42	13.43	15.95	14.98	12.56	9.47			13.05
RV12	5.86	5.11	4.21	6.07	6.47	5.61	6.15	6.05	5.15	3.97			5.47
RV13	0.62	0.61	0.53	0.63	0.74	0.71	0.83	0.78	0.69	0.55			0.67
RV14	19.41	17.97	16.12	19.13	21.23	19.34	23.10	21.80	19.01	14.57			19.17
RV15	0.89	0.81	0.66	1.00	1.20	1.03	1.22	1.08	0.85	0.60			0.93
RV16A	25.66	23.29	20.63	25.31	27.88	25.17	29.40	27.97	24.50	19.01			24.88
RV17	0.38	0.36	0.32	0.41	0.43	0.41	0.46	0.44	0.41	0.37			0.40
RV18	0.80	0.73	0.66	0.71	0.89	0.88	0.77	0.77	0.71	0.49			0.74
RV19	0.34	0.34	0.32	0.36	0.37	0.35	0.39	0.37	0.35	0.29			0.35
RV20	0.73	0.71	0.70	0.77	0.79	0.72	0.79	0.79	0.74	0.67			0.74
RV27	0.90	0.00	0.01	0.22	0.37	0.00	0.73	0.09	0.08	0.00			0.24
RV28	0.32	0.00	0.00	0.08	0.12	0.00	0.34	0.15	0.01	0.00			0.10
RV29	1.21	1.14	0.98	1.07	1.15	1.09	1.37	1.38	1.22	1.04			1.16
RV30	0.28	0.27	0.25	0.25	0.27	0.27	0.30	0.31	0.28	0.26			0.27
RV31	0.21	0.00	0.00	0.02	0.00	0.04	0.12	0.04	0.01	0.00			0.04
RV32	6.08	5.68	5.42	6.92	7.26	6.37	6.78	6.43	5.76	4.80			6.15

2022 Average Industrial TSS Loading Report

July, 2022

Town	SIU Name	Average Daily TSS Loading (Tons/Day) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Average T/D
Clark	Kerry 1	0.120	0.029	0.004	0.022	0.017	0.029	0.015	0.089	0.023				0.0387
	Kerry 2	0.004	0.004	0.005	0.003	0.010	0.005	0.007	0.003	0.004				0.0050
	Kerry 3	0.011	0.016	0.029	0.018	0.006	0.030	0.067	0.020	0.029				0.0251
	Kerry 4	0.028	0.047	0.022	0.027	0.044	0.048	0.066	0.023	0.049				0.0393
													Clark Total:	**0.108**
Kenilworth	B&M Finishers	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				0.0000
	Kenilworth Anodizing	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				0.0000
													Kenilworth Total:	**0.000**
Mountainside	American Aluminum	0.001	0.002	0.012	0.001	0.001	0.004	0.002	0.003	0.002				0.0031
													Mountainside Total:	**0.003**
Rahway	Clean Haven													0.0000
	Guest Packaging 02	0.002	0.000	0.001	0.003	0.002	0.007	0.003	0.003	0.003				0.0027
	Guest Packaging 03	0.002	0.000	0.002	0.014	0.000	0.000	0.000	0.000	0.000				0.0020
	Merck 007	0.019	0.034	0.010	0.003	0.019	0.014	0.259	0.188	0.054				0.0667
	Merck 012	0.036	0.000	0.001	0.004	0.004	0.003	0.001	0.004	0.019				0.0080
	Quala Systems	0.012	0.004	0.020	0.011	0.008	0.023	0.004	0.007	0.016				0.0117
	Suez Water Rahway	0.001	0.005	0.000	0.001	0.001	0.000	0.000	0.001	0.022				0.0034
													Rahway Total:	**0.094**
Roselle Park	Crossfield Products	0.003			0.004			0.003						0.0033
	Merck Kenilworth	0.013	0.042	0.014	0.004	0.011	0.008	0.011	0.007	0.013				0.0137
													Roselle Park Total:	**0.017**
Springfield	Valcor Engineering	0.004	0.006	0.002	0.009	0.006	0.003	0.005	0.002	0.002				0.0043
													Springfield Total:	**0.004**
Woodbridge	BASF 1	0.001	0.002	0.000	0.000	0.001	0.000	0.001	0.000	0.001				0.0007
	BASF 2	0.001	0.001	0.001	0.008	0.001	0.002	0.029	0.001	0.002				0.0051
	Gentek Building Products	0.000	0.001	0.000	0.000	0.000								0.0002
													Woodbridge Total:	**0.006**

Note: Municipalities without Significant Industrial Users ("SIU") are excluded from this report.

2022 Average Industrial BOD Loading Report

July, 2022

Town	SIU Name	Average Daily BOD Loading (Tons/Day) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Average T/D
Clark	Kerry 1	0.015	0.004	0.004	0.005	0.049	0.049	0.027	0.007	0.007				0.0186
	Kerry 2	0.041	0.035	0.024	0.043	0.062	0.059	0.048	0.051	0.064				0.0474
	Kerry 3	0.354	0.108	0.553	0.138	0.072	0.361	0.320	0.172	0.163				0.2490
	Kerry 4	0.080	0.162	0.068	0.198	0.019	0.168	0.303	0.081	0.293				0.1524
													Clark Total:	**0.467**
Kenilworth	B&M Finishers	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				0.0000
	Kenilworth Anodizing	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				0.0000
													Kenilworth Total:	**0.000**
Mountainside	American Aluminum	0.001	0.000	0.000	0.001	0.001	0.002	0.001	0.002	0.001				0.0010
													Mountainside Total:	**0.001**
Rahway	Clean Haven													0.0000
	Guest Packaging 02	0.001	0.002	0.001	0.006	0.004	0.012	0.002	0.008	0.009				0.0050
	Guest Packaging 03	0.001	0.000	0.001	0.003	0.003	0.002	0.002	0.001	0.001				0.0016
	Merck 007	0.011	0.016	0.005	0.001	0.010	0.010	0.009	0.024	0.007				0.0103
	Merck 012	0.025	0.000	0.000	0.001	0.002	0.001	0.001	0.002	0.008				0.0044
	Quala Systems	0.063	0.044	0.042	0.076	0.063	0.090	0.054	0.056	0.056				0.0604
	Suez Water Rahway	0.002	0.001	0.005	0.000	0.001	0.005	0.001	0.001	0.001				0.0019
													Rahway Total:	**0.084**
Roselle Park	Crossfield Products	0.001			0.001			0.001						0.0010
	Merck Kenilworth	0.009	0.010	0.011	0.001	0.010	0.014	0.014	0.014	0.012				0.0106
													Roselle Park Total:	**0.012**
Springfield	Valcor Engineering	0.003	0.006	0.002	0.005	0.010	0.003	0.005	0.001	0.002				0.0041
													Springfield Total:	**0.004**
Woodbridge	BASF 1	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.001				0.0009
	BASF 2	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.001	0.001				0.0012
	Gentek Building Products	0.000	0.000	0.000	0.000	0.000								0.0000
													Woodbridge Total:	**0.002**

Note: Municipalities without Significant Industrial Users ("SIU") are excluded from this report.