

January 5, 2024

TO: Treatment Plant Advisory Committee

SJ: Tributary Agencies Estimated Available Plant Capacity - 2023

The Master Agreements require that the Treatment Plant Advisory Committee file annually with the legislative bodies of San Jose, Santa Clara and member agencies a report on plant capacity. The attached report, Tributary Agencies Estimated Available Plant Capacity - 2023, has been prepared to satisfy this requirement and to identify each agency's 2023 plant capacity as well as estimated available (unused) capacity.

Sincerely,

Kerrie Romanow

Kerrie Romanow
Director
Environmental Services Department

Attachment

**CITY OF SAN JOSE
ENVIRONMENTAL SERVICES DEPARTMENT**

**SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY
TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2023**

November 2023

**CITY OF SAN JOSE
ENVIRONMENTAL SERVICES DEPARTMENT
SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY**

TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2023

This analysis was prepared to comply with the terms of the Master Agreements which require that the operational capacity and productive use of the treatment plant be determined annually. Tables I through IV contain the Plant Capacity, the 2023 Peak Week (5-day average) Flow, and the Remaining Available Capacity for the entire plant and for each individual member for 2023.

2023 PLANT CAPACITY

The nominal capacity of the treatment plant during the 2023 peak week is 167 MGD. The agencies' capacity rights in the 167 MGD plant are shown on Tables I through IV and were determined in accordance with the provisions of the Master Agreements.

2023 PEAK WEEK FLOW (1)

The 2023 peak dry weather flow of 106.51 MGD occurred during the week of August 21 - 25. Tables I through IV contain the agencies' flow and loadings for the 2023 peak week which were obtained from the following sources:

- WEST VALLEY SANITATION DISTRICT - Wastewater Flow Report dated 8/1/23, submitted by the District.
- CUPERTINO SANITARY DISTRICT - Metered Flow Reports dated 11/22/23, submitted by the District.
- CITY OF MILPITAS - Metered Flow Reports dated 11/17/23, submitted by the City
- COUNTY SANITATION DISTRICT 2-3 - 2023-2024 Revenue Program.
- BURBANK SANITARY DISTRICT - 2023-2024 Revenue Program.
- CITY of SAN JOSE and CITY of SANTA CLARA - The 2023 Peak Week flow and loadings remaining after subtracting the other agencies' reported flows and loadings are attributed to San Jose and Santa Clara as joint owners of the facilities. These were allocated, in accordance with the 1959 Agreement, to the two cities based on current assessed valuation ratios of 80.259% for San Jose and 19.741% for Santa Clara.

2023 ESTIMATED AVAILABLE CAPACITY

The Agencies' peak week flows and loadings were subtracted from their capacities in the 167 MGD plant to obtain their 2023 available capacities.

(1) Past reporting has been based on different sources of information between the agencies. A new policy will be put in place that will standardize the source of information and methodology for future reporting purposes to comply with the Master Agreement requirement to report actual discharge.

TABLE I

**CITY OF SAN JOSE
ENVIRONMENTAL SERVICES DEPARTMENT
SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY
TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2023**

Agency	FLOW			Estimated Available Capacity MGD (*)
		2023 Plant Capacity MGD	2023 Peak Week Flow MGD	
San Jose	80.259%	105.779	67.295	38.484
Santa Clara	19.741%	26.018	16.552	9.466
Subtotal	100.000%	131.797	83.847	47.950
West Valley Sanitation District	(1) (3)	11.697	9.523	2.174
Cupertino Sanitary District	(4)	7.850	5.619	2.231
City of Milpitas	(3) (4)	14.250	6.280	7.970
County Sanitation District 2-3	(2)	1.006	1.006	0.000
Burbank Sanitary District		0.400	0.235	0.165
Subtotal		35.203	22.663	12.540
Total		167.000	106.510	60.490

(1) Reflects transfer of capacity from West Valley Sanitation District to San Jose/Santa Clara resulting from annexations as of June 2023.

(2) In January 1985, County Sanitation District 2-3 entered into an agreement with the Cities of San Jose and Santa Clara, as joint owners of the plant, electing not to participate in a fixed capacity. Capacity is determined annually in accordance with the methods and restrictions prescribed in the agreement.

(3) Reflects transfer of capacity from West Valley Sanitation District to Milpitas in July 2006.

(4) Reflects transfer of capacity from Cupertino to Milpitas in January 2009.

(*) Past reporting has been based on different sources of information between the agencies. A new policy will be put in place that will standardize the source of information and methodology for future reporting purposes to comply with the Master Agreement requirement to report actual discharge.

TABLE II

**CITY OF SAN JOSE
ENVIRONMENTAL SERVICES DEPARTMENT
SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY
TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2023**

BOD

Agency		2023 Plant Capacity KLBS/D	2023 Peak Week Flow KLBS/D	Estimated Available Capacity KLBS/D (*)
San Jose	80.259%	373.879	168.096	205.783
Santa Clara	19.741%	91.961	41.346	50.615
Subtotal	100.000%	465.840	209.442	256.398
West Valley Sanitation District	(1) (3)	28.611	20.222	8.389
Cupertino Sanitary District	(4)	16.419	14.604	1.815
City of Milpitas	(3) (4)	27.249	13.943	13.306
County Sanitation District 2-3	(2)	2.066	2.066	.000
Burbank Sanitary District		.815	.483	.332
Subtotal		75.160	51.318	23.842
Total		541.000	260.760	280.240

(1) Reflects transfer of capacity from West Valley Sanitation District to San Jose/Santa Clara resulting from annexations as of June 2023.

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(3) Reflects transfer of capacity from West Valley Sanitation District to Milpitas in July 2006.

(4) Reflects transfer of capacity from Cupertino to Milpitas in January 2009.

(*) Past reporting has been based on different sources of information between the agencies. A new policy will be put in place that will standardize the source of information and methodology for future reporting purposes to comply with the Master Agreement requirement to report actual discharge.

TABLE III

**CITY OF SAN JOSE
ENVIRONMENTAL SERVICES DEPARTMENT
SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY
TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2023**

SUSPENDED SOLIDS

Agency		2023 Plant Capacity KLBS/D	2023 Peak Week Flow KLBS/D	Estimated Available Capacity KLBS/D (*)
San Jose	80.259%	331.989	166.753	165.236
Santa Clara	19.741%	81.658	41.015	40.643
Subtotal	100.000%	413.647	207.768	205.879
West Valley Sanitation District	(1) (3)	27.173	18.336	8.837
Cupertino Sanitary District	(4)	16.299	11.803	4.496
City of Milpitas	(3) (4)	25.990	12.300	13.690
County Sanitation District 2-3	(2)	2.038	2.038	.000
Burbank Sanitary District		.853	.475	.378
Subtotal		72.353	44.952	27.401
Total		486.000	252.720	233.280

(1) Reflects transfer of capacity from West Valley Sanitation District to San Jose/Santa Clara resulting from annexations as of June 2023.

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(3) Reflects transfer of capacity from West Valley Sanitation District to Milpitas in July 2006.

(4) Reflects transfer of capacity from Cupertino to Milpitas in January 2009.

(*) Past reporting has been based on different sources of information between the agencies. A new policy will be put in place that will standardize the source of information and methodology for future reporting purposes to comply with the Master Agreement requirement to report actual discharge.

TABLE IV

CITY OF SAN JOSE
ENVIRONMENTAL SERVICES DEPARTMENT
SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY
TRIBUTARY AGENCIES' ESTIMATED AVAILABLE PLANT CAPACITY - 2023

AMMONIA

Agency		2023 Plant Capacity KLBS/D	2023 Peak Week Flow KLBS/D	Estimated Available Capacity KLBS/D (*)
San Jose	80.259%	32.963	18.289	14.674
Santa Clara	19.741%	8.108	4.499	3.609
Subtotal	100.000%	41.071	22.788	18.283
West Valley Sanitation District	(1) (3)	2.825	2.425	.400
Cupertino Sanitary District	(4)	2.287	1.390	.897
City of Milpitas	(3) (4)	2.847	1.488	1.359
County Sanitation District 2-3	(2)	.273	.273	.000
Burbank Sanitary District		.297	.066	.231
Subtotal		8.529	5.642	2.887
Total		49.600	28.430	21.170

- (1) Reflects transfer of capacity from West Valley Sanitation District to San Jose/Santa Clara resulting from annexations as of June 2023.
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