



Wastewater Epidemiology COVID-19 Report

Updated: 12-Jun-2024 | Data Complete Through: 09-Jun-2024

✉ wastewater@bphc.org



Boston Public
Health Commission

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Level: **Very High**

Level: **High**

Level: **Moderate**

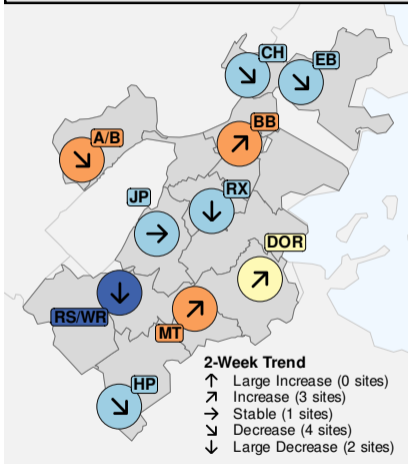
Level: **Low**

Level: **Very Low**

Neighborhood Levels and Trends



COVID-19 Wastewater Levels & Trends (09-Jun-2024)



BOSTON CITYWIDE COVID-19 LEVEL & TRENDS

COVID-19 LEVEL

Moderate

759 copies/mL
samples through 09-Jun-2024

2-WEEK TRENDS



Stable
+43 copies/mL (+6%)

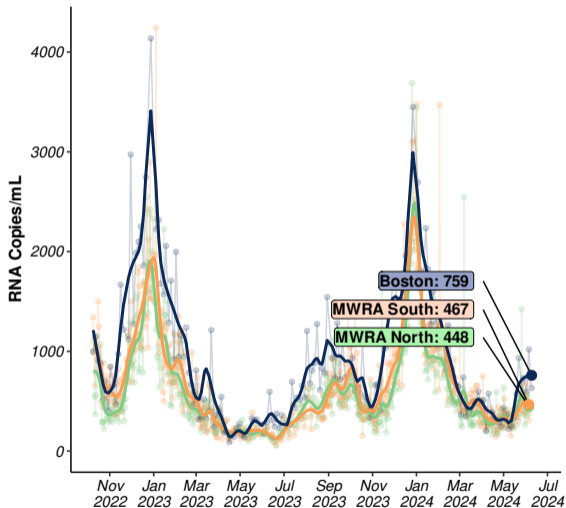
NEIGHBORHOOD SITES COVID-19 LEVEL & TRENDS

Level	Neighborhood/Site	Trend
High	Back Bay (BB)	↗ Increase
	Allston/Brighton (A/B)	↘ Decrease
	Mattapan (MT)	↗ Increase
Moderate	Dorchester (DOR)	↗ Increase
Low	Jamaica Plain (JP)	→ Stable
	Roxbury (RX)	↓ Large Decrease
	Charlestown (CH)	↘ Decrease
	Hyde Park (HP)	↘ Decrease
	East Boston (EB)	↘ Decrease
Very Low	Roslindale/West Roxbury (RS/WR)	↓ Large Decrease

For additional details see:

- [Results by Neighborhood](#)
- [Detailed Neighborhood Levels and Trends Table](#)
- [Trend and Level Category Definitions](#)

Citywide Overview and Trends



CITYWIDE
AVERAGE

759

RNA copies/mL

RANGE ACROSS 11
NEIGHBORHOOD SITES

240-1,224

RNA copies/mL

Data through: **09-Jun-2024**

2-WEEK TRENDS

Boston
Stable

+6%
over the past 14 days

MWRA North
Stable

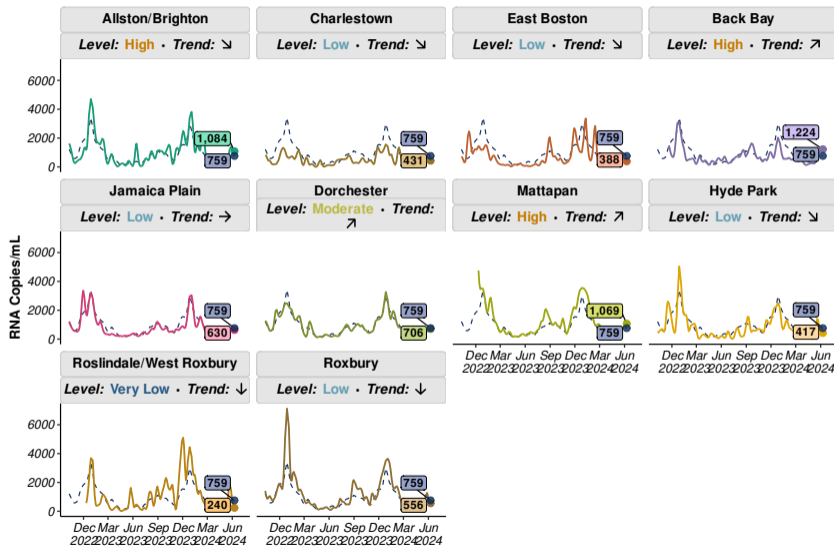
-9%
over the past 14 days

MWRA South
Stable

+12%
over the past 14 days

Updated: 12-Jun-2024 | Samples through: 09-Jun-2024 (BPHC); 05-Jun-2024 (MWRA) | MWRA Data: <https://www.mwra.com/biobot/biobotdata.htm>

BPHC Trend Overview by Neighborhood

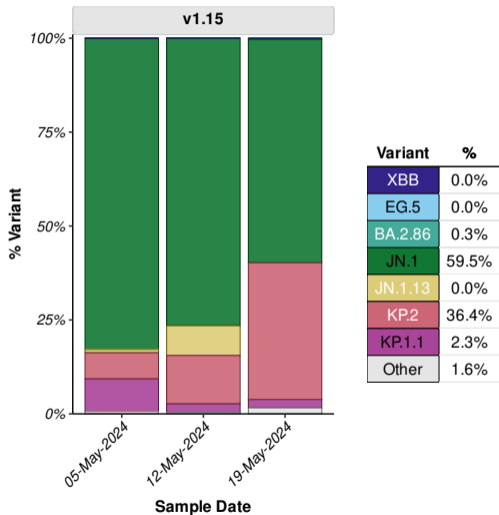


For each neighborhood, colored line and textbox shows the smoothed trend and most recent value in that neighborhood;

The dotted blue line and dark blue text box in each panel shows the trend and most recent value across all Boston sites weighted by population.

To see details and interpretation of these results for an individual neighborhood see [Results by Neighborhood](#).

Citywide Percent Variant Lineages



Average variant percentage across all BPHC sites weighted by population size | Table shows variant percentages for samples collected the week of 19-May-2024 (most recent available data); Variant results are reported weekly with a 3-week lag due to laboratory processing and analysis.

Sequencing Analysis Protocol Version: v1.15 (24-May-2024):

- XBB includes all XBB sublineages aside from those specifically reported
- "Other variants" contains all variants not explicitly quantified.

Version Changes: Added: KP.2, KP1.1

Removed: XBB.1.5, XBB.1.9

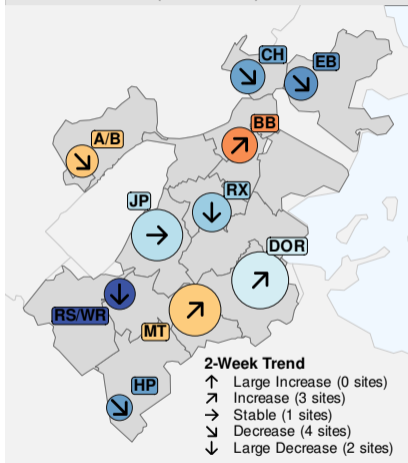
For Additional Info See:

<https://www.biobot.io/covid19-variants-report-notes/>

Neighborhood Levels and Data Table



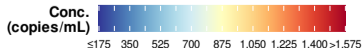
COVID-19 Wastewater Levels & Trends
(09-Jun-2024)



NH	COVID-19 Wastewater Levels		2-Week Trends		
	Conc. (copies/mL)	Level	Trend	Diff. (copies/mL)	% Change
BOSTON	759	Moderate	Stable	+43	
BB	1,224	High	Increase	+267	+28%
A/B	1,084	High	Decrease	-312	-22%
MT	1,069	High	Increase	+280	+36%
DOR	706	Moderate	Increase	+201	+40%
JP	630	Low	Stable	+50	+9%
RX	556	Low	Large Decrease	-732	-57%
CH	431	Low	Decrease	-332	-43%
HP	417	Low	Decrease	-487	-54%
EB	388	Low	Decrease	-204	-34%
RS/WR	240	Very Low	Large Decrease	-1,437	-86%

Concentration Levels: Very High: >1,400 copies/mL; High: 1,050-1,400 copies/mL; Moderate: 700-1,050 copies/mL; Low: 350-700 copies/mL; Very Low: ≤350 copies/mL

2-Week Trend Categories: Large Increase: >+500 copies/mL; Increase: +150 to +500 copies/mL; Stable: -150 to +150 copies/mL; Decrease: -500 to -150 copies/mL; Large Decrease: ≤-500 copies/mL



Results by Neighborhood



- Allston-Brighton (A/B)
- Back Bay (BB)
- Charlestown (CH)
- Dorchester (DOR)
- East Boston (EB)
- Hyde Park (HP)
- Jamaica Plain (JP)
- Mattapan (MT)
- Roslindale/West Roxbury (RS/WR)
- Roxbury (RX)
- South Boston (SB)

Allston/Brighton

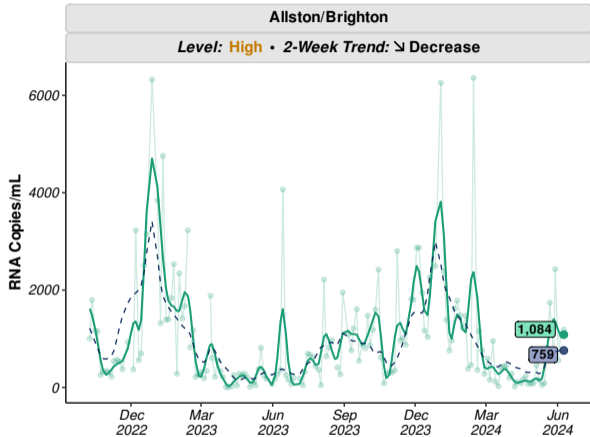


Level: **High**

- Average value in A/B over the past week: **1,084** copies/mL.
- This value is **high** compared to past values and **similar** than the citywide average (**759** copies/mL).

Trend: **↘ Decrease**

- Over the past two weeks, values in A/B are **decreasing**.
- Change compared to two weeks ago: **-312** copies/mL (**-22%**).



Updated: 12-Jun-2024 | Samples through: 09-Jun-2024 (A/B);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Back Bay

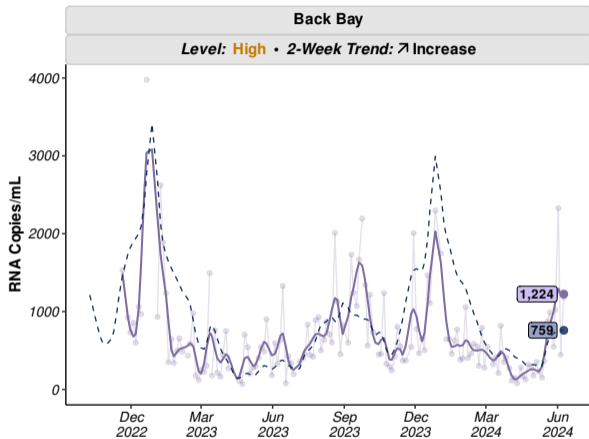


Level: **High**

- Average value in **BB** over the past week: **1,224** copies/mL.
- This value is **high** compared to past values and **higher** than the citywide average (**759** copies/mL).

Trend: **↗ Increase**

- Over the past two weeks, values in **BB** are **increasing**.
- Change compared to two weeks ago: **+267** copies/mL (**+28%**).



Updated: 12-Jun-2024 | Samples through: 09-Jun-2024 (BB);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Charlestown

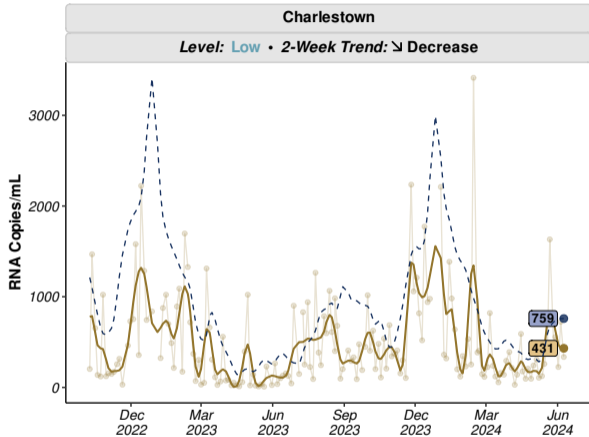


Level: **Low**

- Average value in **CH** over the past week: **431** copies/mL.
- This value is **low** compared to past values and **similar** than the citywide average (**759** copies/mL).

Trend: **↘ Decrease**

- Over the past two weeks, values in **CH** are **decreasing**.
- Change compared to two weeks ago: **-332** copies/mL (**-43%**).



Updated: 12-Jun-2024 | Samples through: 09-Jun-2024 (CH);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Dorchester

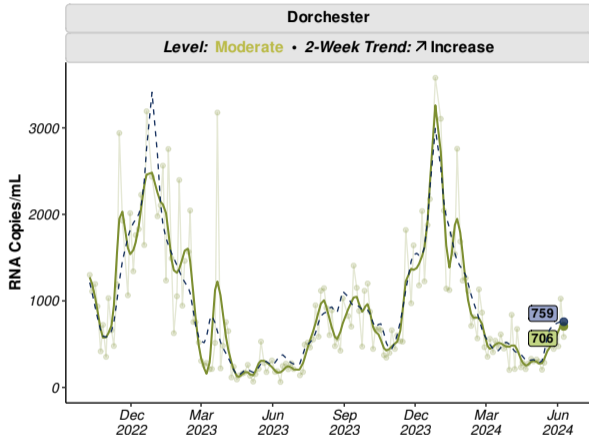


Level: **Moderate**

- Average value in **DOR** over the past week: **706** copies/mL.
- This value is **moderate** compared to past values and **similar** than the citywide average (**759** copies/mL).

Trend: ↗ **Increase**

- Over the past two weeks, values in **DOR** are **increasing**.
- Change compared to two weeks ago: **+201** copies/mL (**+40%**).



See [recommended actions and resources](#) based on levels and trends in this neighborhood.

East Boston

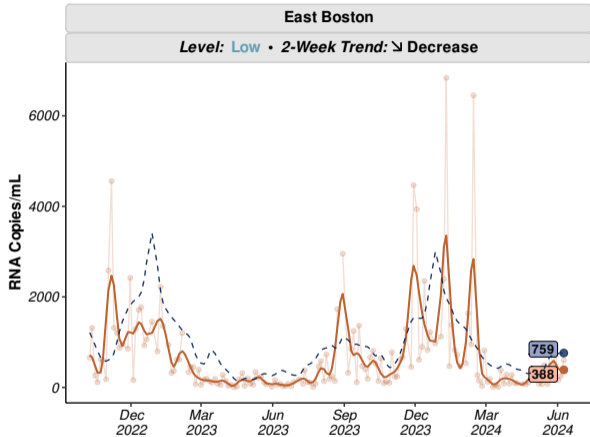


Level: **Low**

- Average value in **EB** over the past week: **388** copies/mL.
- This value is **low** compared to past values and **lower** than the citywide average (**759** copies/mL).

Trend: **↘ Decrease**

- Over the past two weeks, values in **EB** are **decreasing**.
- Change compared to two weeks ago: **-204** copies/mL (**-34%**).



Updated: 12-Jun-2024 | Samples through: 09-Jun-2024 (EB);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Hyde Park

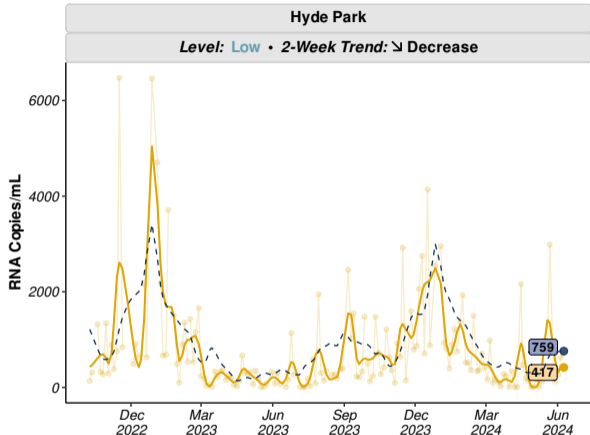


Level: **Low**

- Average value in **HP** over the past week: **417** copies/mL.
- This value is **low** compared to past values and **similar** than the citywide average (**759** copies/mL).

Trend: **↘ Decrease**

- Over the past two weeks, values in **HP** are **decreasing**.
- Change compared to two weeks ago: **-487** copies/mL (**-54%**).



Updated: 12-Jun-2024 | Samples through: 09-Jun-2024 (HP);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Jamaica Plain

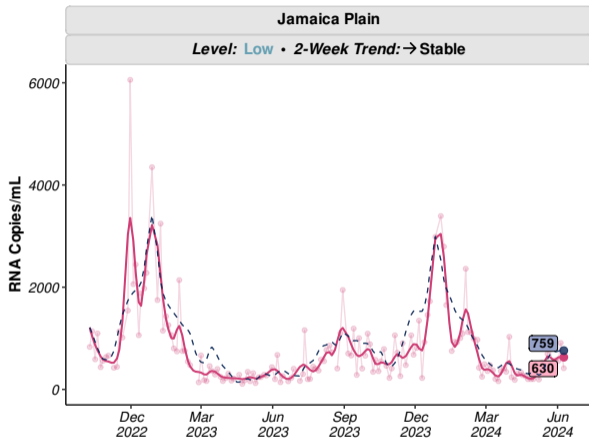


Level: **Low**

- Average value in **JP** over the past week: **630** copies/mL.
- This value is **low** compared to past values and **similar** than the citywide average (**759** copies/mL).

Trend: → **Stable**

- Over the past two weeks, values in **JP** are **stable**.
- Change compared to two weeks ago: **+50** copies/mL (**+9%**).



Updated: 12-Jun-2024 | Samples through: 09-Jun-2024 (JP);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Mattapan

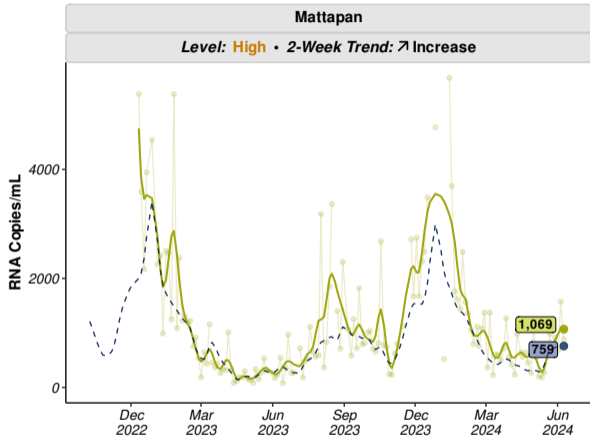


Level: **High**

- Average value in **MT** over the past week: **1,069** copies/mL.
- This value is **high** compared to past values and **similar** than the citywide average (**759** copies/mL).

Trend: ↗ **Increase**

- Over the past two weeks, values in **MT** are **increasing**.
- Change compared to two weeks ago: **+280** copies/mL (**+36%**).



Updated: 12-Jun-2024 | Samples through: 09-Jun-2024 (MT);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Roslindale/West Roxbury

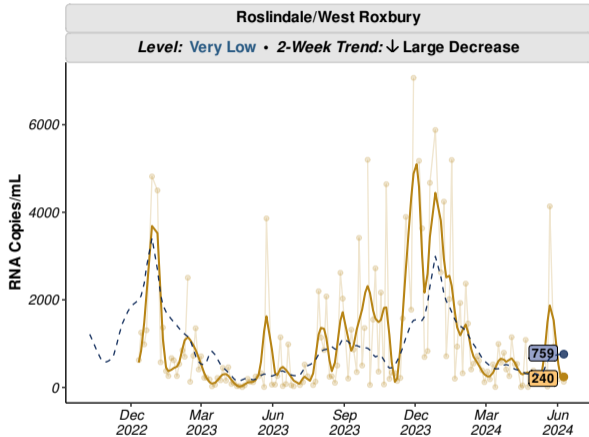


Level: **Very Low**

- Average value in **RS/WR** over the past week: **240** copies/mL.
- This value is **very low** compared to past values and **lower** than the citywide average (**759** copies/mL).

Trend: **↓ Large Decrease**

- Over the past two weeks, values in **RS/WR** are **decreasing**.
- Change compared to two weeks ago: **-1,437** copies/mL (**-86%**).



See [recommended actions and resources](#) based on levels and trends in this neighborhood.

Roxbury

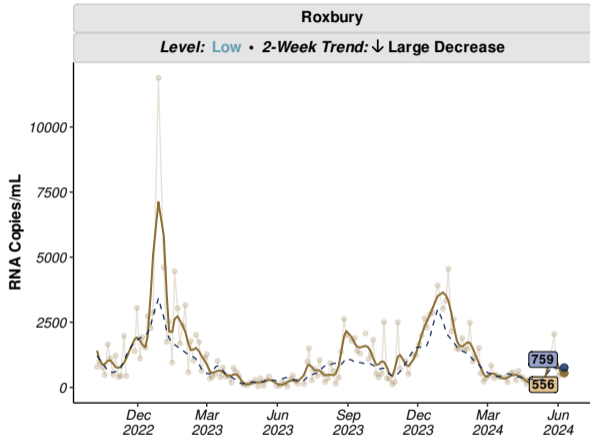


Level: **Low**

- Average value in **RX** over the past week: **556** copies/mL.
- This value is **low** compared to past values and **similar** than the citywide average (**759** copies/mL).

Trend: **↓ Large Decrease**

- Over the past two weeks, values in **RX** are **decreasing**.
- Change compared to two weeks ago: **-732** copies/mL (**-57%**).



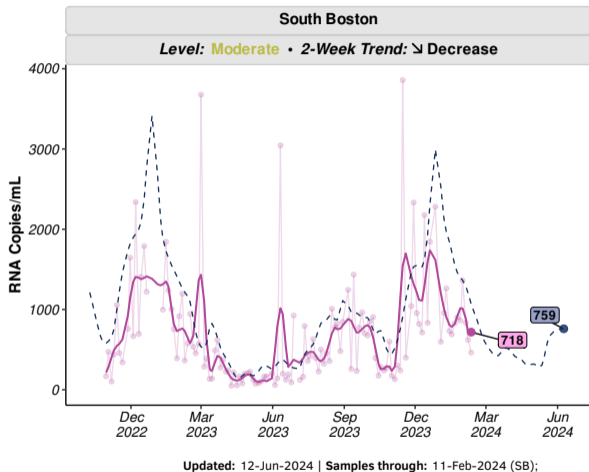
Updated: 12-Jun-2024 | Samples through: 09-Jun-2024 (RX);

See [recommended actions and resources](#) based on levels and trends in this neighborhood.

South Boston



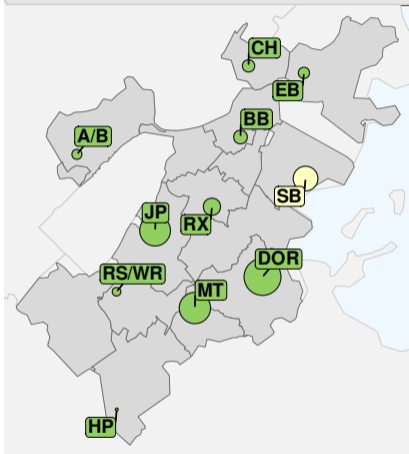
- As of 11-Feb-2024, sampling at the South Boston site has been paused indefinitely due to sewer construction
- Data for South Boston are shown through 11-Feb-2024



Site Status and Details



Status of Sampling Sites (12-Jun-2024)



#	Neighborhood	Date Site Confirmed	Site Status	Pop. Covered	% Neighborhood Covered
01	A/B	02-Oct-2022	Active	2,684	4.0%
02	CH	02-Oct-2022	Active	3,736	18.3%
03	EB	02-Oct-2022	Active	3,178	6.3%
04	BB	20-Nov-2022	Active	4,551	8.1%
05	SB	30-Oct-2022	Paused*	14,962	35.8%
07	JP	02-Oct-2022	Active	23,573	56.9%
08	DOR	02-Oct-2022	Active	34,562	23.8%
09	MT	11-Dec-2022	Active	24,441	80.5%
10	HP	02-Oct-2022	Active	1,262	3.5%
11	RS/WR	11-Dec-2022	Active	2,165	3.5%
12	RX	02-Oct-2022	Active	7,036	16.5%

Site Status (N=11)



Active
(n=10)



Paused
(n=1)

Level and Trend Category Definitions



Concentration Levels

Concentration Level	Concentration Value (Copies/mL)
Very High	>1,400
High	1,050-1,400
Moderate	700-1,050
Low	350-700
Very Low	≤350

2-Week Trend Categories

	Trend Category	Trend Value (Copies/mL)
↑	Large Increase	>+500
↗	Increase	+150 to +500
→	Stable	-150 to +150
↘	Decrease	-500 to -150
↓	Large Decrease	≤-500

Level: **Very High**



Wastewater viral levels in your neighborhood indicate **very high risk** of COVID-19 infection.

Based on this level, BPHC urgently recommends the following practices to prevent COVID-19 in your community:

- Wear a [high-quality mask or respirator](#)
- If you are at [high risk of getting very sick](#), consider limiting non-essential indoor activities in public where you could be exposed.
- If you have close contact with someone at [high risk of getting very sick](#), consider self-testing to detect infection before contact, and consider wearing a high-quality mask when indoors with them
- Stay up-to-date on [vaccinations](#).
- Seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve [indoor airflow and ventilation](#)
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for [isolation](#) if you have COVID-19 and for [what to do if you are exposed](#) to someone with COVID-19

RESOURCES

- Find a [vaccination clinic](#) in your neighborhood
- Find a [testing site](#) or pickup a [free at-home test kit](#) in your neighborhood
- Find [treatment](#) for COVID-19 including [free telehealth](#) and [in home treatment](#).
- Call or visit the [Mayor's Health Line](#)
- Learn more about COVID-19 and find additional resources: [COVID-19: Know the Facts Find the Truth](#)

Level: High



Wastewater viral levels in your neighborhood indicate **high risk** of COVID-19 infection.

Based on this level, BPHC strongly recommends the following practices to prevent COVID-19 in your community:

- Wear a [high-quality mask or respirator](#)
- If you have close contact with someone at [high risk of getting very sick](#), consider self-testing to detect infection before contact, and consider wearing a high-quality mask when indoors with them
- Stay up-to-date on [vaccinations](#).
- Seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve [indoor airflow and ventilation](#)
- Wash your hands often and cover coughs and sneezes
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Level: Moderate

Wastewater viral levels in your neighborhood indicate **moderate risk** of COVID-19 infection.

Based on this level, BPHC recommends the following practices to prevent COVID-19 in your community:

- If you are at [high risk of getting very sick](#), wear a [high-quality mask or respirator](#) in public indoor spaces
- If you have close contact with someone at [high risk of getting very sick](#), consider self-testing to detect infection before contact, and consider wearing a high-quality mask when indoors with them
- Stay up-to-date on [vaccinations](#).
- Seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve [indoor airflow and ventilation](#)
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for [isolation](#) if you have COVID-19 and for [what to do if you are exposed](#) to someone with COVID-19

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Level: **Low**



Wastewater viral levels in your neighborhood indicate **low risk** of COVID-19 infection.

Based on this level, BPHC recommends the following practices to prevent COVID-19 in your community:

- **Continue to monitor wastewater levels and trends**
- Stay up-to-date on [vaccinations](#).
- Seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve [indoor airflow and ventilation](#)
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for [isolation](#) if you have COVID-19 and for [what to do if you are exposed](#) to someone with COVID-19

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Level: **Very Low**

Wastewater viral levels in your neighborhood indicate **very low risk** of COVID-19 infection.

Based on this level, BPHC recommends the following practices to prevent COVID-19 in your community:

- **Continue to monitor wastewater levels and trends**
- Stay up-to-date on [vaccinations](#).
- Seek testing and possible treatment if you get sick
- Stay home when sick and avoid contact with others who are sick
- Improve [indoor airflow and ventilation](#)
- Wash your hands often and cover coughs and sneezes
- Follow CDC recommendations for [isolation](#) if you have COVID-19 and for [what to do if you are exposed](#) to someone with COVID-19

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- Call or visit the [Mayor's Health Line](#)
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