Column Label	Definition	Units	Example
City	City in which the collection site resides	n/a	Anytown
State	State in which the collection site resides	n/a	CA
State_Abbr	State in which the collection site resides	n/a	California
			American County
Plant	Plant name as shown on the website	n/a	CA
			Anytown USA
Sita Nama	Full name of collection site	n/o	Wastewater Treatment Facility
Site_Name		n/a	
Zipcode	Zip code of the collection site	n/a	90210
Population_Served	Human population contribution to the sewershed of the collection site	n/a	7000000
County FIPS			06041
·-	Counties served by collection site	n/a	
Collection_Date	Date sample was collected (YYYY-MM-DD)	n/a	2022-01-01
Sample_ID	Unique identifier for each specimen	n/a	XX-XXXXX
Dilution	The dilution of RNA used in the PCR. A value of '1' indicates no dilution. A value of '10' indicates the RNA has been diluted 1:10 with H2O.	n/a	
	Copies of SARS-CoV-2 RNA from the nucleocapsid gene per		
SC2_N_gc_g_dry_weight	gram of dried solid	copies per gram of dry solid sample	
	68% upper confidence level of copies of SARS-CoV-2 RNA from		
SC2_N_gc_g_dry_weight_UCI	the nucleocapsid gene per gram of dried solid	copies per gram of dry solid sample	
	68% lower confidence level of copies of SARS-CoV-2 RNA from		
SC2_N_gc_g_dry_weight_LCI	the nucleocapsid gene per gram of dried solid	copies per gram of dry solid sample	
SC2 S as a day weight	Copies of SARS-CoV-2 RNA from the spike gene per gram of	copies per gram of day!!d	
SC2_S_gc_g_dry_weight	dried solid	copies per gram of dry solid sample	
SC2 S ac a dry weight LICI	68% upper confidence level of copies of SARS-CoV-2 RNA from the spike gene per gram of dried solid	copies per gram of dry solid sample	
SC2_S_gc_g_dry_weight_UCI		copies per gram of dry solid sample	
SC2_S_gc_g_dry_weight_LCI	68% lower confidence level of copies of SARS-CoV-2 RNA from the spike gene per gram of dried solid	copies per gram of dry solid sample	
SC2_S_gc_g_ury_weignt_Ecr			
3C2_3_IIOIIII_FIMIMOV	The ratio of SARS-CoV-2 Signer RNA to PMMoV RNA	copies per gram of dry solid sample	
SC2_Omicron_Del143145_gc_g_dry_weight	Copies of SARS-CoV-2 RNA from the S:143-145 deletion (indicative of BA.1) per gram of dried solid	copies per gram of dry solid sample	
OCZ_OMIGION_BOTHOTHO_go_g_dry_weight	68% upper confidence level of copies of SARS-CoV-2 RNA from	copies per gram or ary some sample	
SC2_Omicron_Del143145_gc_g_dry_weight_UCI	the S:143-145 deletion (indicative of BA.1) per gram of dried solid	copies per gram of dry solid sample	
======================================	68% lower confidence level of copies of SARS-CoV-2 RNA from	sepice per gram er ary cema campie	
SC2_Omicron_Del143145_gc_g_dry_weight_LCI	the S:143-145 deletion (indicative of BA.1) per gram of dried solid	copies per gram of dry solid sample	
	The ratio of SARS-CoV-2 RNA from the S:143-145 deletion	a compared to the contract of	
SC2_Omicron_Del143145_norm_PMMoV	(indicative of BA.1) to PMMoV RNA	n/a	
	Copies of SARS-CoV-2 RNA from the S:156-157 deletion		
SC2_Delta_156157_gc_g_dry_weight	(indicative of Delta) per gram of dried solid	copies per gram of dry solid sample	
	68% upper confidence level of copies of SARS-CoV-2 RNA from		
SC2_Delta_156157_gc_g_dry_weight_UCI	the S:156-157 deletion (indicative of Delta) per gram of dried solid	copies per gram of dry solid sample	
	68% lower confidence level of copies of SARS-CoV-2 RNA from		
SC2_Delta_156157_gc_g_dry_weight_LCI	the S:156-157 deletion (indicative of Delta) per gram of dried solid	copies per gram of dry solid sample	
	Copies of SARS-CoV-2 RNA from the S:LPPA24S deletion		
SC2_BA_2_LPPA24S_gc_g_dry_weight	(indicative of BA.2) per gram of dried solid	copies per gram of dry solid sample	
	68% upper confidence level of copies of SARS-CoV-2 RNA from		
SC2_BA_2_LPPA24S_gc_g_dry_weight_UCI	the S:LPPA24S deletion (indicative of BA.2) per gram of dried solid	copies per gram of dry solid sample	
3C2_BA_2_EFFA243_gc_g_dry_weight_0Cf		copies per grant of dry solid sample	
	68% lower confidence level of copies of SARS-CoV-2 RNA from the S:LPPA24S deletion (indicative of BA.2) per gram of dried		
SC2_BA_2_LPPA24S_gc_g_dry_weight_LCI	solid	copies per gram of dry solid sample	
	The ratio of SARS-CoV-2 RNA from the S:LPPA24S mutation	, , , , , , , , , , , , , , , , , , , ,	
SC2_BA_2_LPPA24S_norm_PMMoV	(indicative of BA.1) to PMMoV RNA	n/a	
RSV_gc_g_dry_weight	Copies of RSV RNA per gram of dried solid	copies per gram of dry solid sample	
	68% upper confidence level of copies of RSV RNA per gram of		
RSV_gc_g_dry_weight_UCI	dried solid	copies per gram of dry solid sample	
	68% lower confidence level of copies of RSV RNA per gram of		
RSV_gc_g_dry_weight_LCI	dried solid	copies per gram of dry solid sample	
Influenza_A_gc_g_dry_weight	Copies of influenza A RNA per gram of dried solid	copies per gram of dry solid sample	
	68% upper confidence level of copies of influenza A RNA per		
Influenza_A_gc_g_dry_weight_UCI	gram of dried solid	copies per gram of dry solid sample	
	68% lower confidence level of copies of influenza A RNA per		
Influenza_A_gc_g_dry_weight_LCI	gram of dried solid	copies per gram of dry solid sample	
PMMoV_gc_g_dry_weight	Copies of PMMoV RNA per gram of dried solid	copies per gram of dry solid sample	
DMMeV/ so a dry weight 1101	68% upper confidence level of PMMoV RNA per gram of dried	conice non-con-co-of-de-	
PMMoV_gc_g_dry_weight_UCI	solid	copies per gram of dry solid sample	
PMMoV ac a dry weight LCI	68% lower confidence level of PMMoV RNA per gram of dried	copies per gram of day solid servel-	
PMMoV_gc_g_dry_weight_LCI	solid	copies per gram of dry solid sample	
SC2_N_gc_g_dry_weight_trimmed5	A 5-sample, centered average of SC2_N_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample	
ooz_ii_go_g_uiy_woigiit_uiiIIIIeuo		sopies per grain of dry solid sample	
SC2_S_gc_g_dry_weight_trimmed5	A 5-sample, centered average of SC2_S_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample	
<u>-</u>	A 5-sample, centered average of the ratio of	22,000 po. g.am or ary some sample	
SC2_S_norm_PMMoV_trimmed5	SC2 S norm PMMoV without the highest and lowest values	n/a	
	A 5-sample, centered average of		
	SC2_Omicron_Del143145_gc_g_dry_weight without the highest		
SC2_Omicron_Del143145_gc_g_dry_weight_trimmed5	and lowest values	copies per gram of dry solid sample	

	A 5-sample, centered average of the ratio of SC2_Omicron_Del143145_norm _PMMoV without the highest and lowest values	n/a
SC2_Delta_156157_gc_g_dry_weight_trimmed5	A 5-sample, centered average of SC2_Delta_156157_gc_g_dry_weight dry weight without the highest and lowest values	copies per gram of dry solid sample
	A 5-sample, centered average of SC2_BA_2_LPPA24S_gc_g_dry_weight dry weight without the highest and lowest values	copies per gram of dry solid sample
	A 5-sample, centered average of SC2_BA_2_LPPA24S_norm_PMMoV without the highest and	
	lowest values A 5-sample, centered average of RSV_gc_g_dry_weight dry weight without the highest and lowest values	n/a copies per gram of dry solid sample
	A 5-sample, centered average of Influenza_A_gc_g_dry_weight dry weight without the highest and lowest values	copies per gram of dry solid sample
	A 5-sample, centered average of PMMoV_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample
	The number of droplet digital PCR reactions run for the SARS-CoV-2 N Gene	number of reactions
	The number of droplet digital PCR reactions run for the SARS-CoV-2 S Gene	number of reactions
	The number of droplet digital PCR reactions run for the SARS-CoV-2 S:143-145 deletion (indicative of BA.1)	number of reactions
SC2_Delta_156157_num_wells	The number of droplet digital PCR reactions run for the SARS-CoV-2 S:156-157 deletion (indicative of Delta)	number of reactions
SC2_BA_2_LPPA24S_num_wells	The number of droplet digital PCR reactions run for the SARS-CoV-2 LPPA24S mutation (indicative of BA.2)	number of reactions
	The number of droplet digital PCR reactions run for RSV	number of reactions
	The number of droplet digital PCR reactions run for Influenza A	number of reactions
	The number of droplet digital PCR reactions run for PMMoV	number of reactions
SC2_BA_4_ORF1a_Del141143_gc_g_dry_weight	Copies of SARS-CoV-2 RNA from the ORF1a:141-143 deletion (indicative of BA.4) per gram of dried solid	copies per gram of dry solid sample
SC2_BA_4_ORF1a_Del141143_gc_g_dry_weight_UCI	68% upper confidence interval of copies of SARS-CoV-2 RNA from the ORF1a:141-143 deletion (indicative of BA.4) per gram of dried solid	copies per gram of dry solid sample
	68% lower confidence interval of copies of SARS-CoV-2 RNA from the ORF1a:141-143 deletion (indicative of BA.4) per gram of dried solid	copies per gram of dry solid sample
	The ratio of SARS-CoV-2 RNA from the ORF1a:141-43 deletion (indicative of BA.1) to PMMoV RNA	n/a
	A 5-sample, centered average of SC2_BA_4_ORF1a_Del141143	copies per gram of dry solid sample
	A 5-sample, centered average of SC2_BA_4_ORF1a_Del141143_norm_PMMoV without the highest and lowest values	n/a
SC2_BA_4_ORF1a_Del141143_num_wells	The number of droplet digital PCR reactions run for SARS-Cov-2 ORF1a:141-143 deletion (indicative of BA.4)	number of reactions
HV_69_70_Del_gc_g_dry_weight	Copies of SARS-CoV-2 RNA from the S:HV69-70 deletion (indicative of Alpha, Omicron BA.1, BA.4, and/or BA.5) per gram of dried solid. Note that this mutation was used to detect the Alpha variant from April 2021 to August 2021, the Omicron BA.1 variant from November 2021 to December 2021, and the Omicron BA.4 and BA.5 variants from June 2022 onwards	copies per gram of dry solid sample
HV_69_70_Del_gc_g_dry_weight_UCI	68% upper confidence interval of copies of SARS-CoV-2 RNA from the S:HV69-70 deletion (indicative of Alpha, Omicron BA.1, BA.4, and/or BA.5) per gram of dried solid	copies per gram of dry solid sample
HV_69_70_Del_gc_g_dry_weight_LCI	68% lower confidence interval of copies of SARS-CoV-2 RNA from the S:HV69-70 deletion (indicative of Alpha, Omicron BA.1, BA.4, and/or BA.5) per gram of dried solid	copies per gram of dry solid sample
HV_69_70_Del_norm_PMMoV	The ratio of SARS-Cov-2 RNA from the S:HV60-70 deletion (indicative of Alpha, Omicron, BA.1, BA.4, and/or BA.5) to PMMoV RNA	n/a
HV_69_70_Del_gc_g_dry_weight_trimmed5	A 5-sample, centered average of HV_69_70_Del_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample
HV_69_70_Del_norm_PMMoV_trimmed5	A 5-sample, centered average of HV69_70_Del_norm_PMMoV without the highest and lowest values	copies per gram of dry solid sample
	The number of droplet digital PCR reactions run for SARS-Cov-2 RNA from the S:HV69-70 deletion (indicative of Alpha, Omicron, BA.1, BA.4, and/or BA.5)	number of reactions
	Copies of MPXV DNA per gram of dried solid	copies per gram of dry solid sample
MPXV_G2R_G_gc_g_dry_weight_UCI	68% upper confidence level of copies of MPXV DNA per gram of dried solid	copies per gram of dry solid sample
	68% lower confidence level of copies of MPXV DNA per gram of dried solid	copies per gram of dry solid sample
MPXV_G2R_G_norm_PMMoV	The ratio of MPXV DNA to PMMoV RNA	n/a
	A 5-sample, centered average of MPXV_G2R_G_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample

MPXV_G2R_G_norm_PMMoV_trimmed5	A 5-sample, centered average of MPXV_G2R_G_norm_PMMoV without the highest and lowest values	copies per gram of dry solid sample
MPXV_G2R_G_num_wells	The number of droplet digital PCR reactions run for MPXV DNA	number of reactions
MPXV_G2R_WA_gc_g_dry_weight	Copies of MPXV Clade II DNA per gram of dried solid	copies per gram of dry solid sample
MPXV_G2R_WA_gc_g_dry_weight_UCI	68% upper confidence level of copies of MPXV Clade II DNA per gram of dried solid	copies per gram of dry solid sample
MPXV_G2R_WA_gc_g_dry_weight_LCI	68% lower confidence level of copies of MPXV Clade II DNA per gram of dried solid	copies per gram of dry solid sample
MPXV_G2R_WA_norm_PMMoV	The ratio of MPXV_G2R DNA to PMMoV RNA	n/a
MPXV G2R WA gc g dry weight trimmed5	A 5-sample, centered average of MPXV_G2R_WA_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample
MPXV_G2R_WA_norm_PMMoV_trimmed5	A 5-sample, centered average of MPXV_G2R_WA_norm_PMMoV without the highest and lowest values	n/a
MPXV_G2R_WA_gc_num_wells	The number of droplet digital PCR reactions run for MPXV Clade II DNA	number of reactions
Noro_G2_gc_g_dry_weight_trimmed5	A 5-sample, centered average of Noro_G2_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample
Noro_G2_gc_g_dry_weight	Copies of Norovirus GII RNA per gram of dried solid	copies per gram of dry solid sample
Noro_G2_gc_g_dry_weight_UCI	68% upper confidence level of copies of Norovirus GII RNA per gram of dried solid	copies per gram of dry solid sample
Noro_G2_gc_g_dry_weight_LCI	68% lower confidence level of copies of Norovirus GII RNA per gram of dried solid	copies per gram of dry solid sample
Noro_G2_norm_PMMoV	The ratio of Norovirus GII RNA to PMMoV RNA	n/a
Noro_G2_norm_PMMoV_trimmed5	A 5-sample, centered average of Noro_G2_norm_PMMoV without the highest and lowest values	copies per gram of dry solid sample
Noro_G2_num_wells	The number of droplet digital PCR reactions run for Norovirus GII RNA	number of reactions
Influenza_B_gc_g_dry_weight_trimmed5	A 5-sample, centered average of Influenza_B_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample
Influenza_B_norm_PMMoV_trimmed5	A 5-sample, centered average of Influenza_B_norm_PMMoV without the highest and lowest values	copies per gram of dry solid sample
Influenza_B_gc_g_dry_weight	Copies of Influenza B RNA per gram of dried solid	copies per gram of dry solid sample
Influenza_B_gc_g_dry_weight_UCI	68% upper confidence level of copies of Influenza B RNA per gram of dried solid	copies per gram of dry solid sample
Influenza_B_gc_g_dry_weight_LCI	68% lower confidence level of copies of Influenza B RNA per gram of dried solid	copies per gram of dry solid sample
Influenza_B_norm_PMMoV	The ratio of Influenza B RNA to PMMoV RNA	n/a
Influenza_B_num_wells	The number of droplet digital PCR reactions run for Influenza B RNA	number of reactions
HMPV_4_gc_g_dry_weight	Copies of human Metapneuomivrus RNA per gram of dried solid	copies per gram of dry solid sample
HMPV_4_gc_g_dry_weight_UCI	68% upper confidence level of copies of human Metapneuomivrus RNA per gram of dried solid	copies per gram of dry solid sample
HMPV_4_gc_g_dry_weight_LCI	68% lower confidence level of copies of human Metapneuomivrus RNA per gram of dried solid	copies per gram of dry solid sample
HMPV_4_norm_PMMoV	The ratio of human Metapneuomivrus RNA ro PMMoV RNA	n/a
HMPV_4_gc_g_dry_weight_trimmed5	A 5-sample, centered average of HMPV_4_gc_g_dry_weight without the highest and lowest values	copies per gram of dry solid sample
HMPV_4_norm_PMMoV_trimmed5	A 5-sample, centered average of HMPV_4_norm_PMMoV without the highest and lowest values	copies per gram of dry solid sample
HMPV_4_num_wells	The number of droplet digital PCR reactions run for human Metapneuomivrus RNA	number of reactions