CRD IWS Core Area Wastewater System

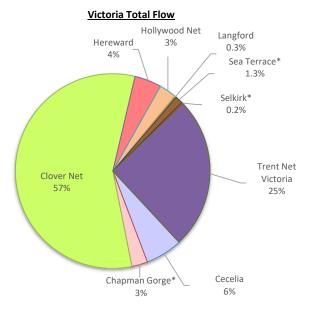
Monthly Wastewater Flow Report for Victoria - March 2024

Disclaimer: The data used in this report is considered preliminary. It may be further corrected in the annual cost requisition report.

1. Monthly Wastewater Flow Data: Mar 2024

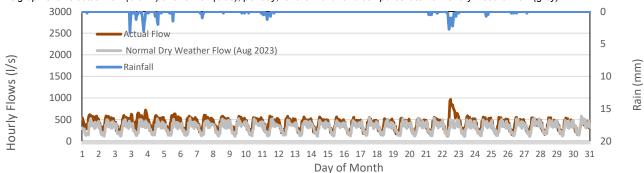
This data summarizes the volume of flow measured from catchments contributing to Victoria's total flow (map on page 3).

Flow Meter Name				
	m ³	%		
Cecelia	67,296	6%		
Chapman Gorge*	28,680	3%		
Clover Net	620,144	57%		
Clover Magmeter	1,469,254			
Currie PS	- 518,884			
Hollywood & Trent PS	- 330,226			
Hereward	48,855	4%		
Hollywood Net	30,986	3%		
Hollywood	36,411			
Harling	- 5,425			
Langford	3,162	0.3%		
Sea Terrace*	13,778	1.3%		
Selkirk*	2,636	0.2%		
Trent Net Victoria	275,553	25%		
Trent PS	293,816			
Trent Flume	6,399			
Towlney & Haultain	- 24,662			
Monthly Flow	1,091,090	100%		



2. Victoria Hourly Sewer Flows Mar 2024

This graph shows actual flow (brown) and rainfall (blue), per day, for the month and compares it to normal dry weather flow (grey).



3. Key Wastewater Flow Stats: Mar 2024

Overflows	(monitored by	y CRD):	Mar 2024
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Metric	Flow (m ³) ¹
Total Monthly Flow	1,091,090
Average Daily Flow	35,196
Minimum Daily Flow	30,504
Peak 24hr Flow (PWWF) 2	51,367
Peak 1hr Flow ³	83,395
Average Dry Weather Flow (ADWF) ⁴	27,989
Estimated Daily Domestic Flow ⁵	21,336

¹ Excludes overflows that may have occurred (overflow volumes are not measure	d).
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Location	Date
Bowker Creek	None
Clover	None
McMicking Outfall	None
Macaulay Outfall	None
Sea Terrace Overflow to Storm Sewer	None

 $^{^{5}}$ Calculated as ADWF minus summer groundwater (70% of minimum hourly flow x 24 hours).

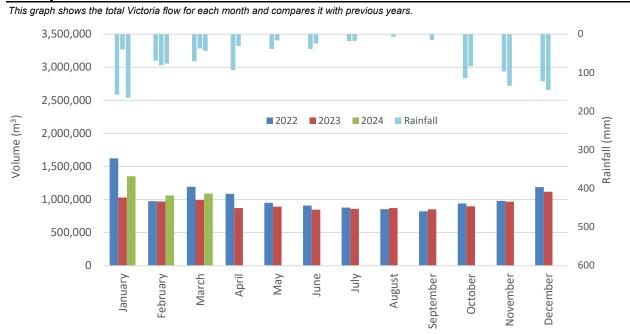
^{*}Flows are calculated based on engineering estimates

 $^{^{\}rm 2}$ Calculated as maximum rolling 24 hr flow for the month.

³ Expressed as 24 hour flow (peak 1 hr flow x 24).

⁴ Average daily flow from most recent Jun 1 to Aug 31 data. Includes groundwater infiltration over that period.

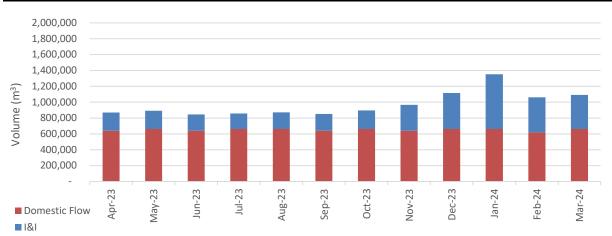
4. Monthly Wastewater Flow: Historical vs. Current

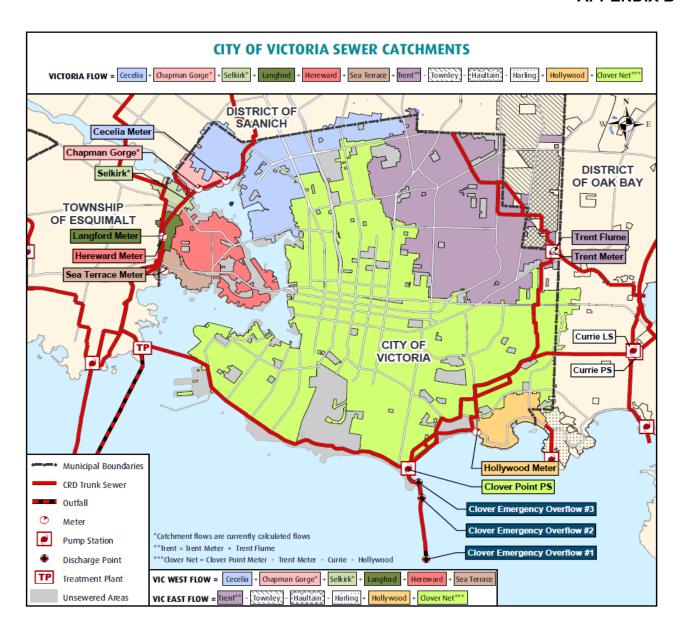


5. Inflow & Infiltration Flow Summary: Mar 2024

Key I&I Metrics	Value ¹		Peak 24hr Flow Factor of ADWF
Total Monthly Flow (m ³)	1,091,090	5.0	
Estimated Domestic Flow for Month (m ³) ²	661,421		
I&I Volume for Month (m ³) ³	429,669	4.0	
I&I Volume for Month (% total flow)	39%		
Peak 24hr Flow (PWWF) 4	1.8 x ADWF	3.0	
Peak 1hr Flow ⁵	3.0 x ADWF		
¹ Excludes overflow volume			
² Determined by (Est. Daily Domestic flow from section 3.) x (number	er of days per month)		1.8 x
³ Determined by subtracting Estimated Domestic Flow from Total Monthly Flow			ADWF
⁴ Determined by dividing Peak 24hr Flow from section 3. by ADWF			
⁵ Determined by dividing Peak 1hr Flow from section 3. by ADWF		0.0	

6. Monthly Flows: I&I and Domestic Flow

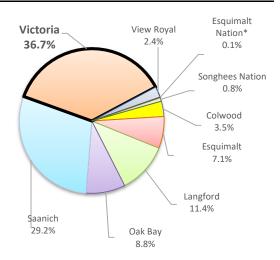




7. Regional Flow Data: Mar 2024

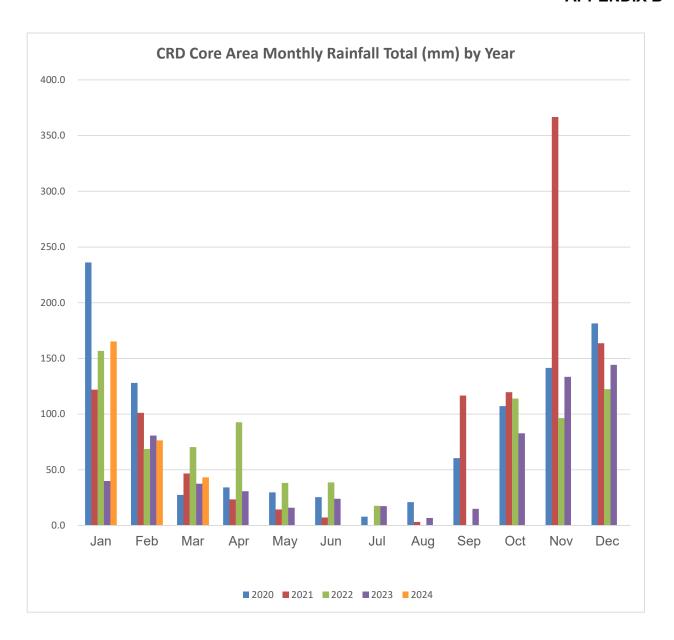
Participant Area	tal Monthly Flow				
	m ³	%			
Colwood	103,142	3.5%			
Esquimalt	210,686	7.1%			
Langford	339,024	11.4%			
Oak Bay	260,937	8.8%			
Saanich	867,933	29.2%			
Victoria	1,091,090	36.7%			
View Royal	72,034	2.4%			
Esquimalt Nation*	2,731	0.1%			
Songhees Nation	23,882	0.8%			
Total	2,971,460	100.0%			

^{*}Flows are calculated based on engineering estimates



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Core Area Monthly Rainfall (mm) by Year



Month	CRD Core Area Monthly Rainfall Total (mm) by Year					
MOTILII	2020	2021	2022	2023	2024	
Jan	236.3	122.0	156.8	40.0	165.3	
Feb	128.0	101.3	68.8	80.8	76.5	
Mar	27.5	46.8	70.5	37.5	43.3	
Apr	34.3	23.5	92.8	30.8	#N/A	
May	29.8	14.5	38.3	16.0	#N/A	
Jun	25.5	7.3	38.8	24.0	#N/A	
Jul	8.0	0.3	17.8	17.5	#N/A	
Aug	21.0	3.3	0.3	6.8	#N/A	
Sep	60.5	116.8	0.5	15.0	#N/A	
Oct	107.3	119.8	114.0	82.8	#N/A	
Nov	141.5	366.8	96.5	133.5	#N/A	
Dec	181.5	163.8	122.5	144.3	#N/A	
Total	1,001.0	1,085.8	817.3	628.8	#N/A	

The data above is for the KWL rain guage located on roof of 3045 Douglas Street.