



Memorandum



TO: Porcupine Watershed Public Liaison Committee

FROM: Dave Landers

CC:

DATE: April 25, 2022

RE: Whitney Tisdale Pump Station By-pass Flows

The Ministry Order #1760-8TPNU6 required the City to significantly reduce Bypasses. Based on the data available (see Appendix), we have met that requirement. As well, the City has fully complied with all 11 ministry orders indicated in Order # DO 4703-933KH3.

Over the Easter weekend, in the Porcupine lake area we experienced flows that were six times greater than normal, with the heavy melt lasting from April 12 to April 16. The stations were faced with a heavy melt with frozen ground thus not allowing absorption into the ground as relief.

The storm tanks at station 4 were used to full 8000m3 capacity and once filled can only be emptied when the high flows subsided. During that period, those storage tanks were filled to capacity twice.

The system is fully operational and functioning as per its design. The City will be requesting a written report from our design consultant JLR on the performance of the new system to confirm that is the case.

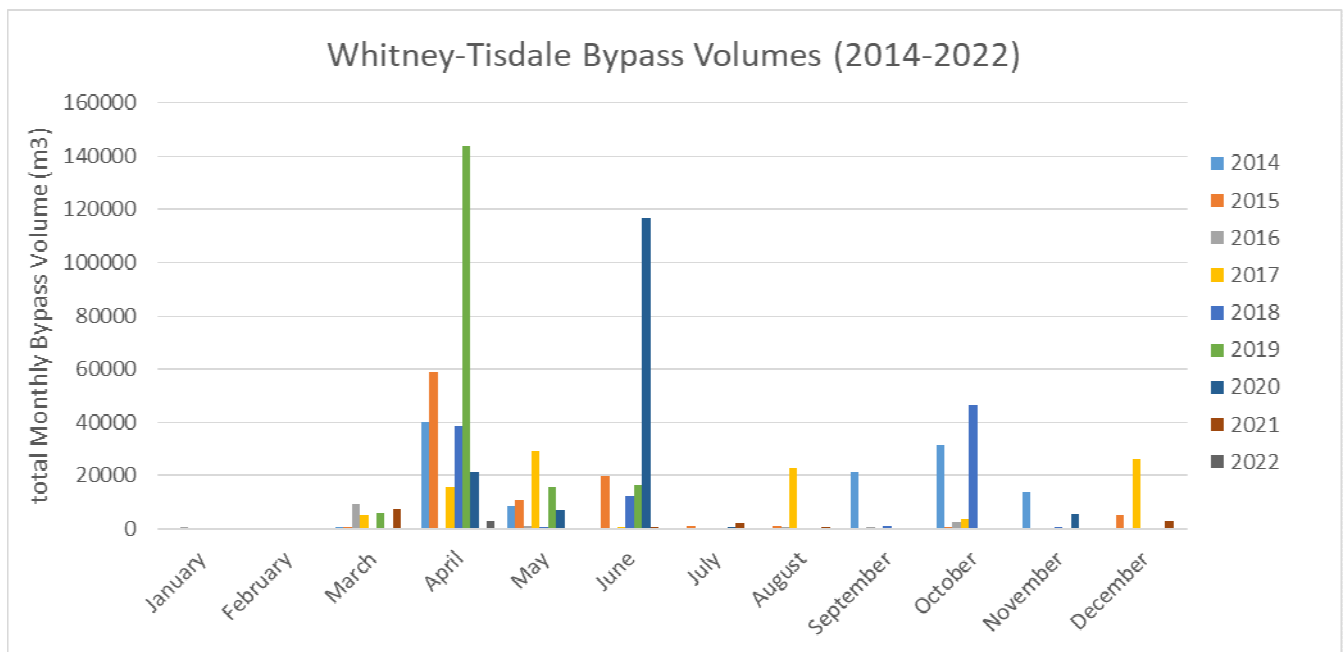
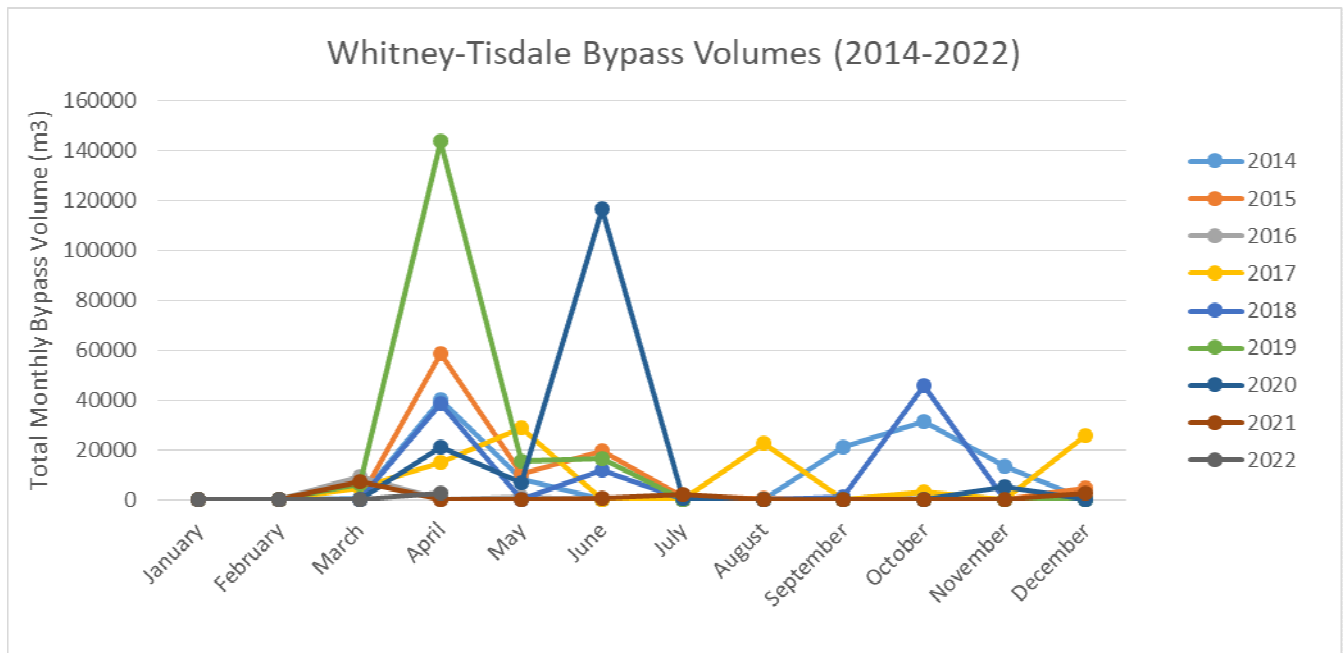
Our next steps will see the City continuing its lining program in the east end around the PS2 and 3 sewer sheds. As well, staff will be bringing a report to council to adopt a by-law for a residential Inflow and infiltration subsidy program.

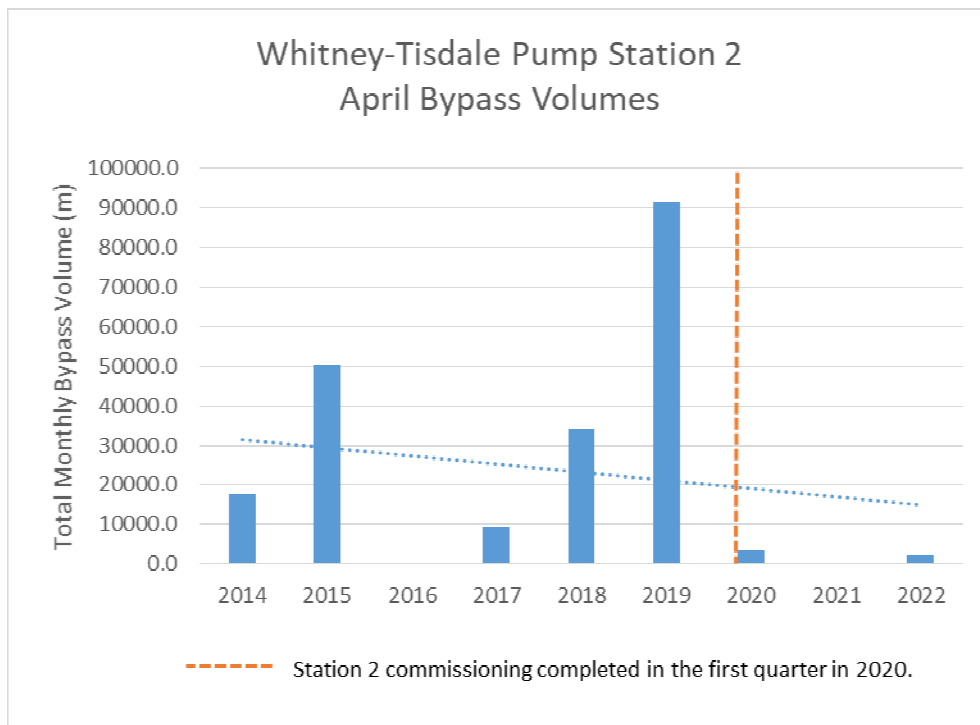
Thank you,

A handwritten signature in black ink, appearing to read "Duh".

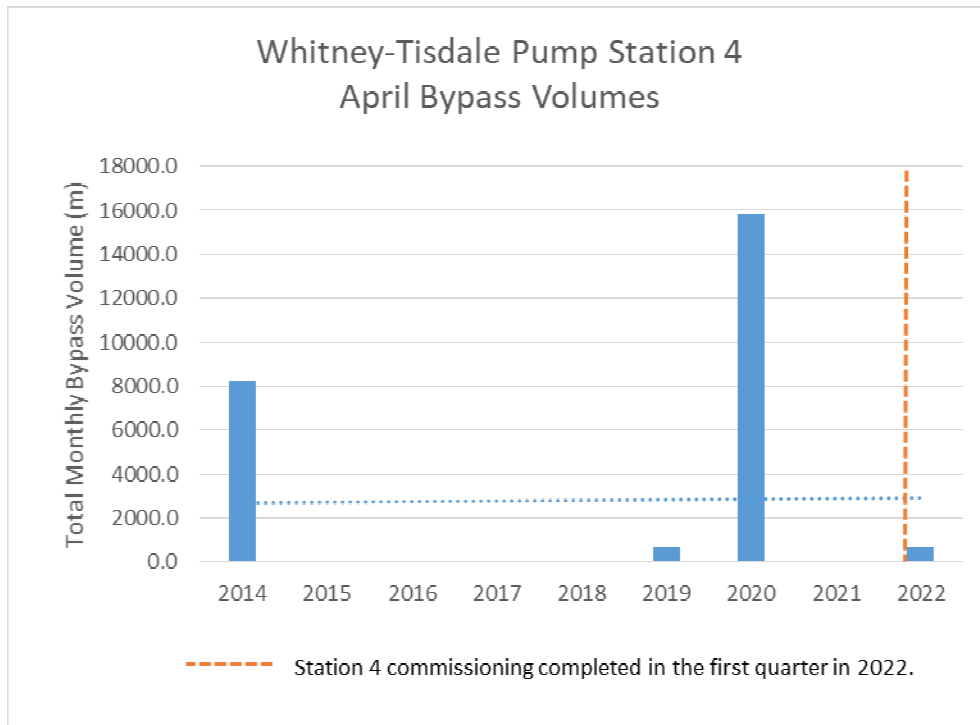
Dave Landers, CAO

APPENDIX



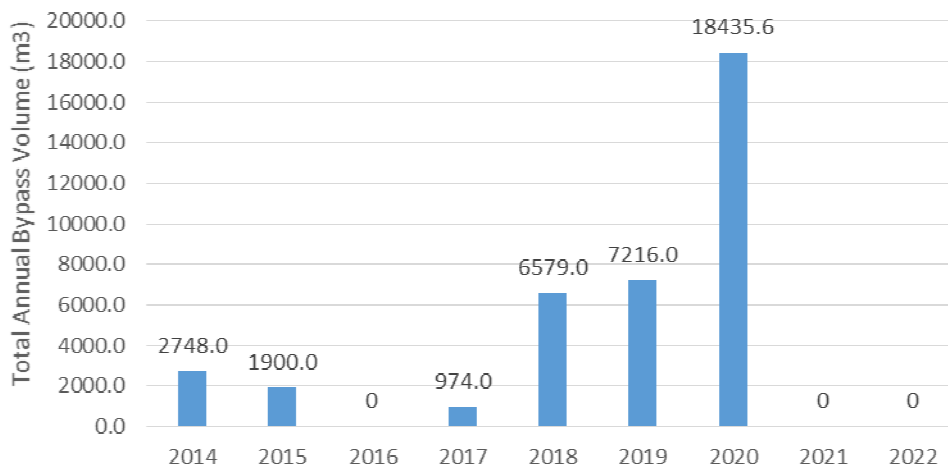


Whitney-Tisdale Station 2									
	2014	2015	2016	2017	2018	2019	2020	2021	2022
April	34080.								
	17598.0	50371.0	0	9197.0	0	91485.6	3575.7	0	2110.0
	Average April Bypass Volume Pre-commissioning (m3)						Average April Bypass Volume Post-commissioning (m3)		
April	33788.6						1895.2		
% Reduction	94.39%								

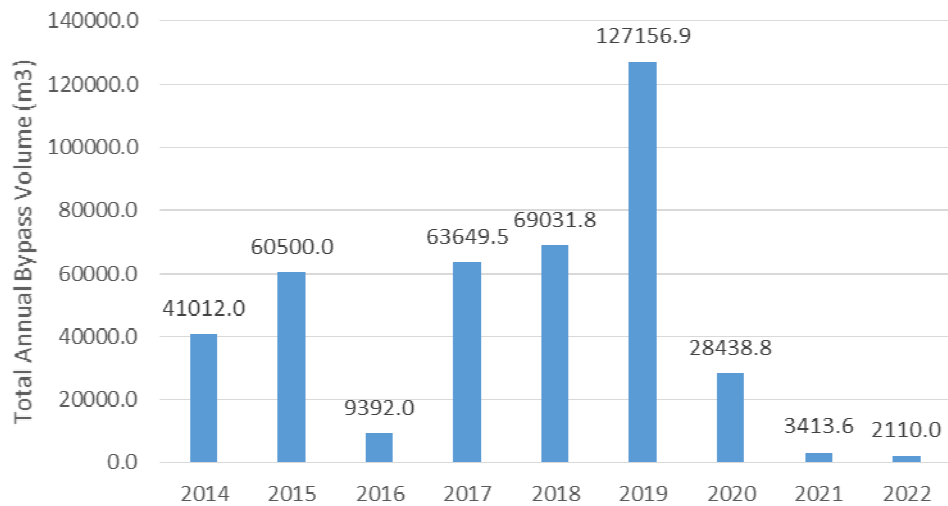


Whitney-Tisdale Station 4									
	2014	2015	2016	2017	2018	2019	2020	2021	2022
April	8276.0	0.0	0	0.0	0.0	666.2	15821.5	0	679.0
Average April Bypass Volume Pre-commissioning (m3)							Average April Bypass Volume Post-commissioning (m3)		
April	3095.5						679.0		
% Reduction	78.06%								

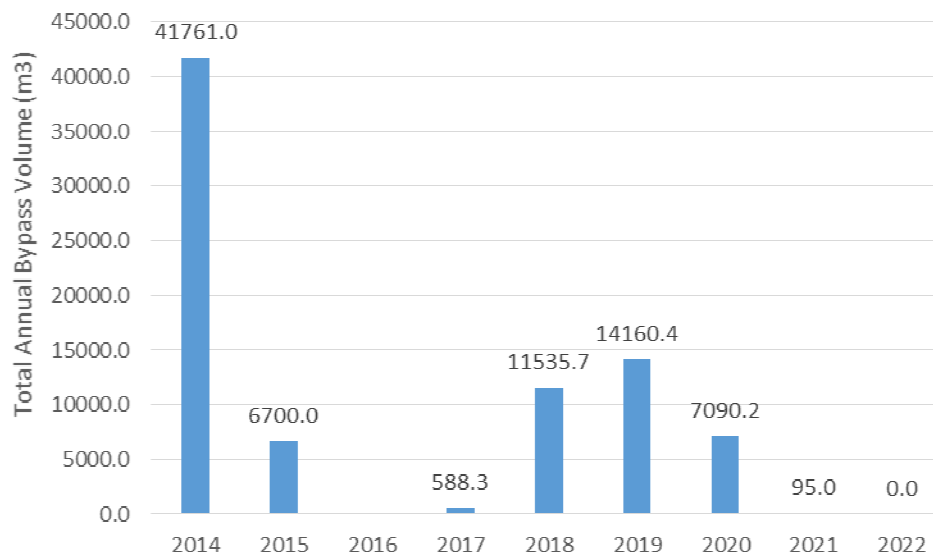
Whitney-Tisdale Pump Station 1
Annual Bypass Volume (2014-2022)



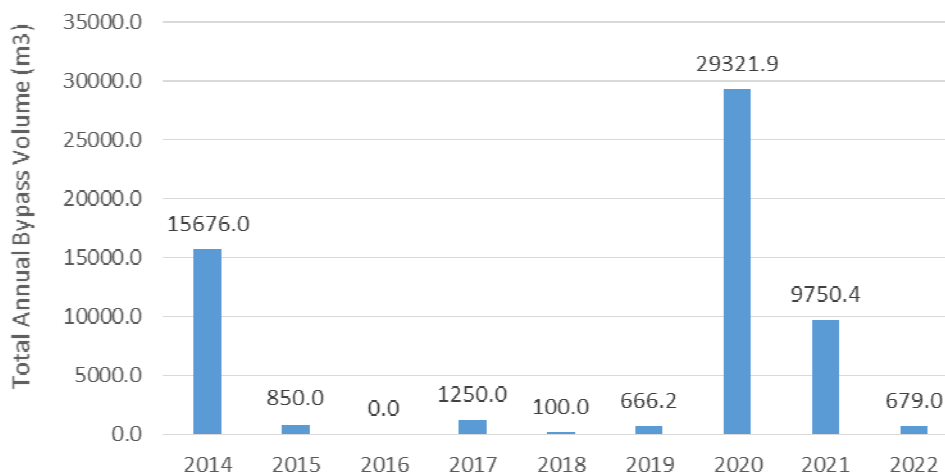
Whitney-Tisdale Pump Station 2
Annual Bypass Volume (2014-2022)



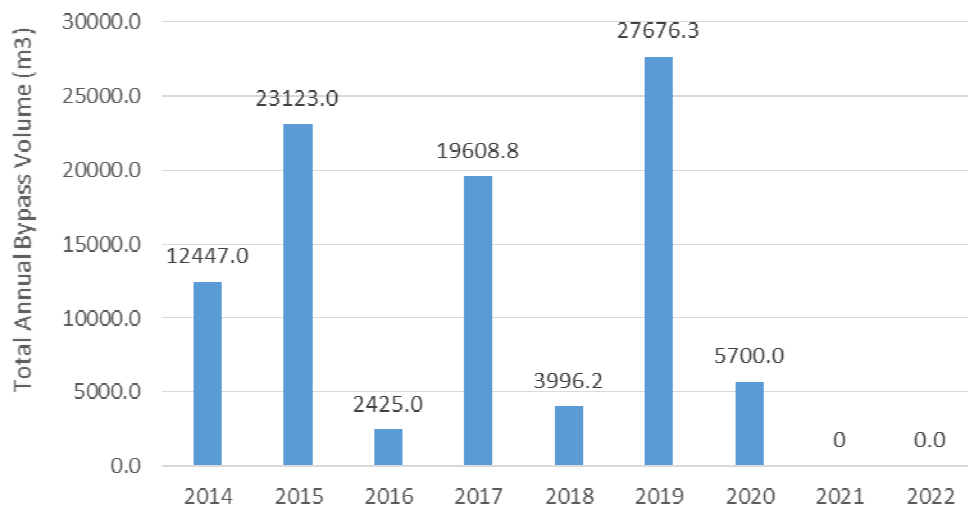
Whitney-Tisdale Pump Station 3
Annual Bypass Volume (2014-2022)



Whitney-Tisdale Pump Station 4
Annual Bypass Volume (2014-2022)



Whitney-Tisdale Pump Station 5
Annual Bypass Volume (2014-2022)



Whitney-Tisdale Pump Station 6
Annual Bypass Volume (2014-2022)

