

Pine River at Larry's Place



Downstream of Strada's Proposed Quarry

Feb 15, 2025

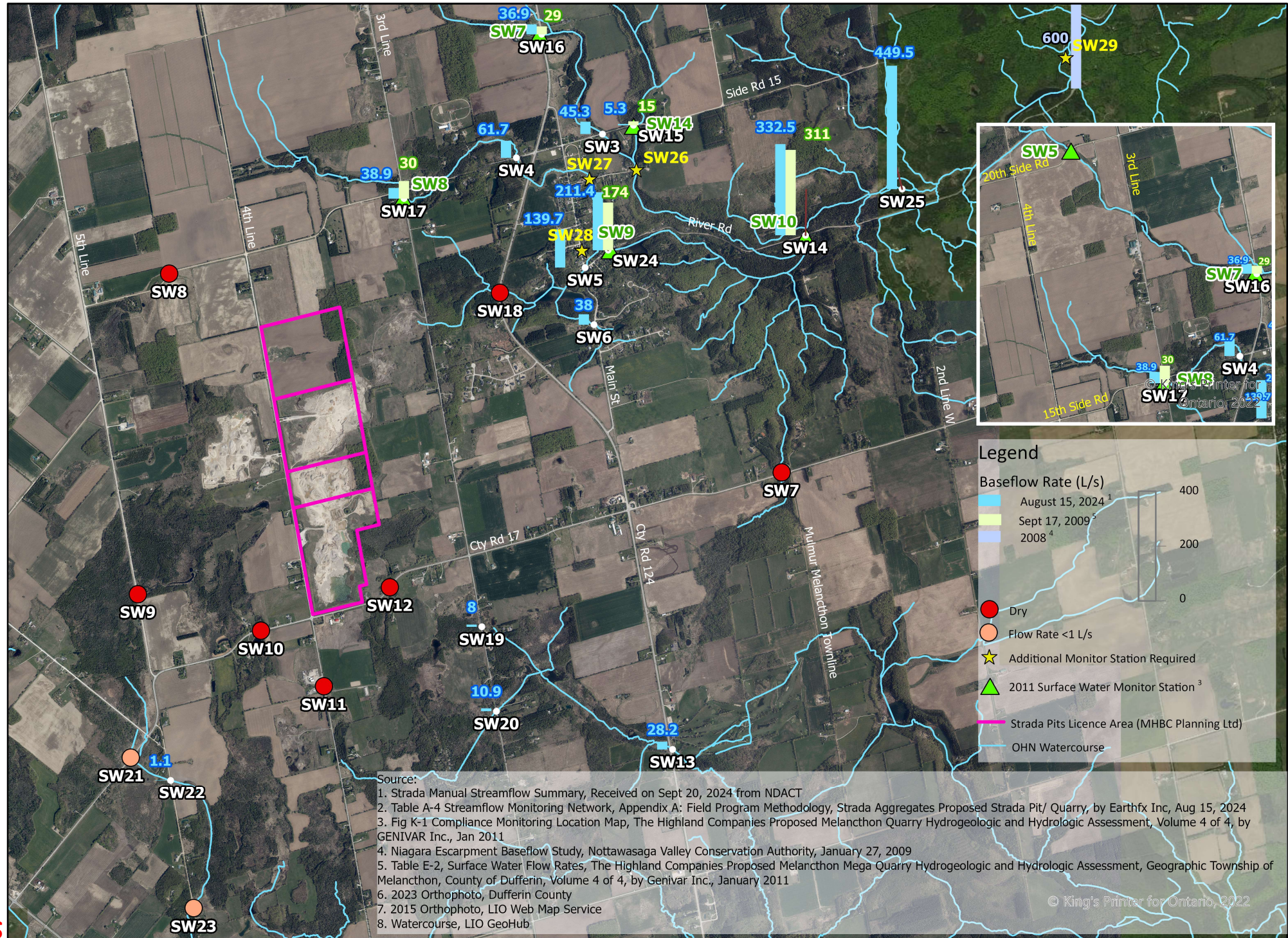
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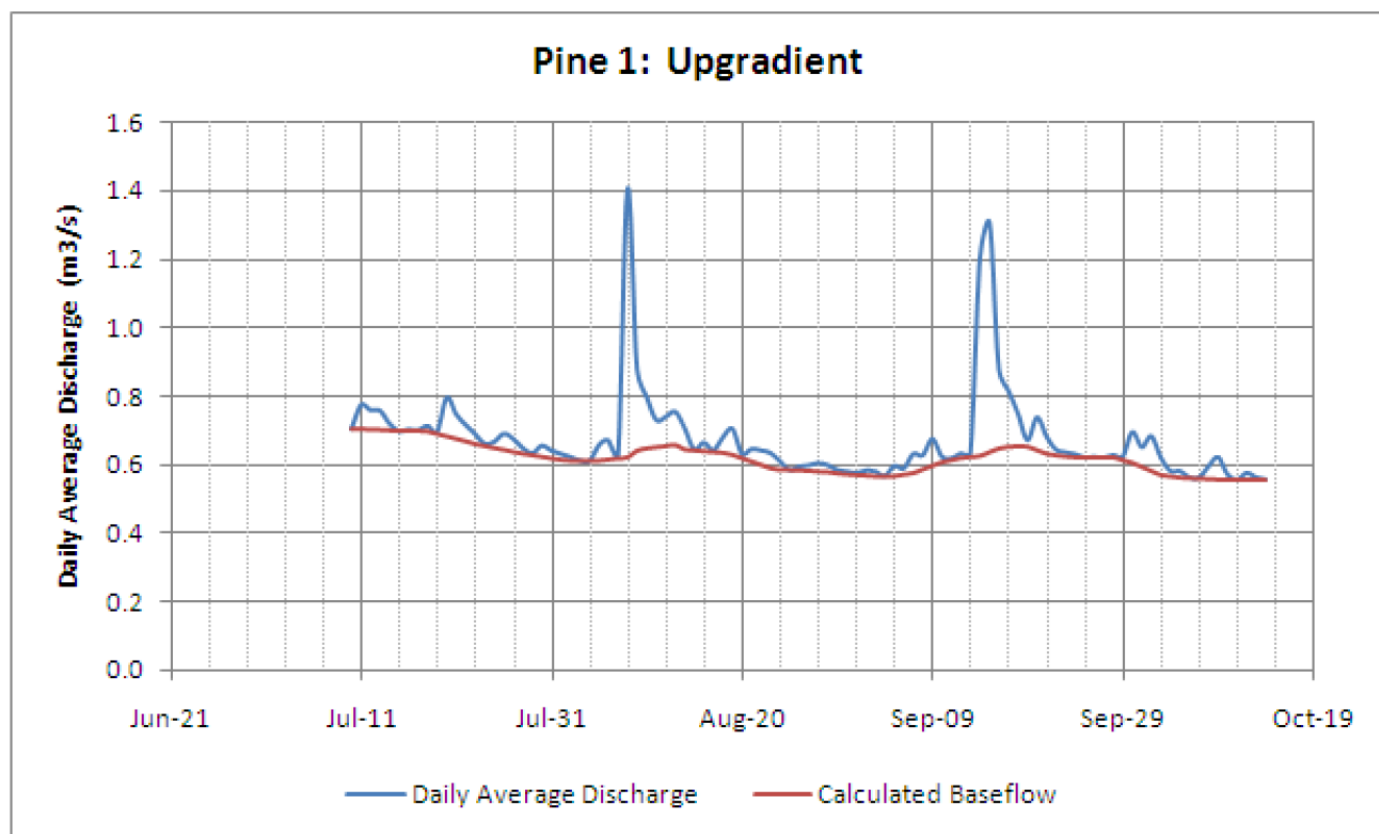




Streamflow and Water Quality Measurements

Pine River									
Site Name	Pine 1	Pine 2	Pine 3	Pine 1	Pine 2	Pine 3	Pine 1	Pine 2	Pine 3
Geological Reference	Upgradient	Contact	Downgradient	Upgradient	Contact	Downgradient	Upgradient	Contact	Downgradient
Date	15-Aug-08	15-Aug-08	15-Aug-08	8-Sep-08	8-Sep-08	8-Sep-08	2-Oct-08	2-Oct-08	2-Oct-08
Flow Condition	Low	Low	Low	Medium	Medium	Medium	High	High	High
Total Discharge (m3/s)	0.5975	0.5069	0.6248	0.6447	0.5707	0.6237	0.6748	0.7039	0.8395
Time	10:29	11:14	12:16	12:56	13:44	14:31	9:50	10:33	11:29
Temperature (°C)	15.36	15.58	16.06	14.43	14.78	15.02	10.63	10.45	10.52
Conductivity (µS/cm)	508.00	503.00	483.00	506.00	500.00	480.00	516.00	512.00	493.00
DO (mg/L)	9.70	9.64	9.81	11.14	11.42	11.45	11.10	11.15	11.26
pH	8.18	8.30	8.35	8.38	8.48	8.46	8.26	8.30	8.30
Chloride	35.98	35.25	31.05	110.30	109.40	120.40	59.68	64.46	63.25
Turbidity (NTU)	1.10	0.60	0.00	0.70	1.10	1.70	0.00	0.00	0.00
Chlorophyll (µg/L)	10.60	6.90	5.70	1.50	1.45	1.00	0.30	209.00	0.90

key Location Prince of Wales



Not in Model

Source: Excerpts from Niagara Escarpment Baseflow Study, Nottawasaga Valley Conservation Authority, Jan 27, 2009

File Date: Jan 22, 2025

DRAFT

Strada Proposed Quarry

Table HA.1.1

Model vs Observed Stream Flows

Geographic Location	Appendix E Model Virtual Base Flow ¹⁾ Lowest Aug. to Sept.			Strada Observed Flows Aug 15, 2024 ²⁾		Genivar Observed Flows Sept 17, 2009 ³⁾		NVCA 2008 ⁵⁾	
	Station		L/s	Station	L/s	Station	L/s	Station	L/s
Newell Funston	STR2	Fig 3.22	0	SW17	38.9	SW8	30		
15th SR	STR3	Fig 3.22	13	SW4	61.7	-			
H.M Lake	STR9	Fig 4.10	18	-		-			
Main Street	STR8	Fig 4.11	56	SW5	139.7	-			
Mill Pond R.R	STR7	Fig 4.11	85	SW24	211.4	SW9	174		
Campbell 124 Cty Rd	STR1		NA	SW16	36.9	SW7	29		
Campbell 15th SR	STR4		NA	SW3	45.3	-			
Honeywood 15th SR				SW15	5.3	SW14	15		
Townline R.R				SW14	332.5	SW10	311		
Honeywood Line R.R				SW25	449.5	-			
Pine River at Prince of Wales Rd								Pine 1	600
Pine River at Everett ⁴⁾		Fig 3.38	830	-		-			
Golf Course 124	STR14	Fig 3.18	0	SW13	28.2	-			

Note: R.R: River Road

H.M: Horning's Mills

NA: Not Available

Date Source:

1) Draft Impact Assessment Report, Proposed Strada Pit/Quarry, by Earthfx Inc, August 2024

2) Strada Manual Streamflow Summary, Received on Sept 20, 2024 from NDACT

3) Table E-2, Surface Water Flow Rates, The Highland Companies Proposed Melancthon Mega Quarry Hydrogeologic and Hydrologic Assessment, Geographic Township of Melancthon, County of Dufferin, Volume 4 of 4, by Genivar Inc., January 2011

4) Appendix D Model Development and Calibration Report, Proposed Strada Pit/Quarry, by Earthfx Inc, August 2024

5) Niagara Escarpment Baseflow Study, Nottawasaga Valley Conservation Authority, January 27, 2009

File Date: January 23, 2025

StreamFlowCompare_20251223.xlsx

Stream Flows Underestimated 2 to 3X

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