JUNCTION CREEK STREAM HEALTH AT-A-GLANCE 2019

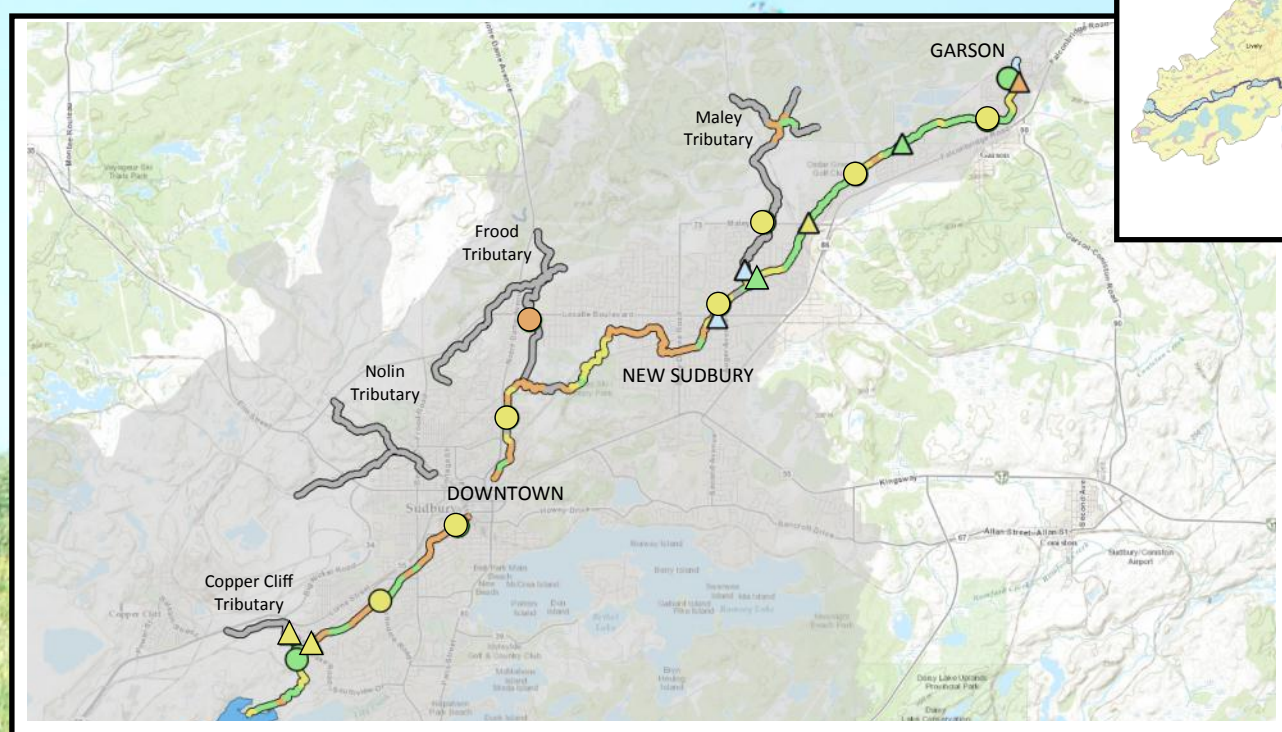
OVERALL STREAM HEALTH SCORE

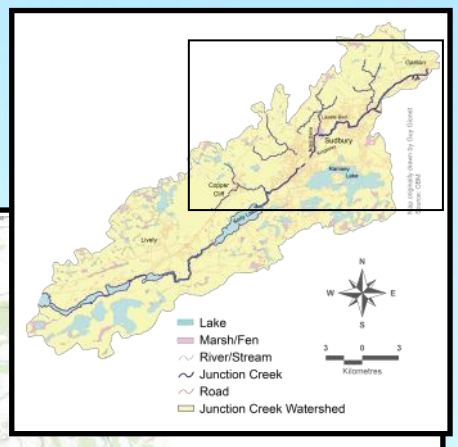
Current Status	Fair	Trend	Improving

FISH COMMUNITY

Current Status	Fair
Trend	Improving

Fish Species Present
Pollution Intolerant
Blacknose shiner
Brook trout
Logperch
Pollution Sensitive
Brassy minnow
Common shiner
Finescale dace
Iowa darter
Northern redbelly dace
Pearl dace
Pumpkinseed
Yellow perch
Pollution Tolerant
Brook stickleback
Brown bullhead
Central mudminnow
Creek chub
Fathead minnow
Golden shiner
White sucker





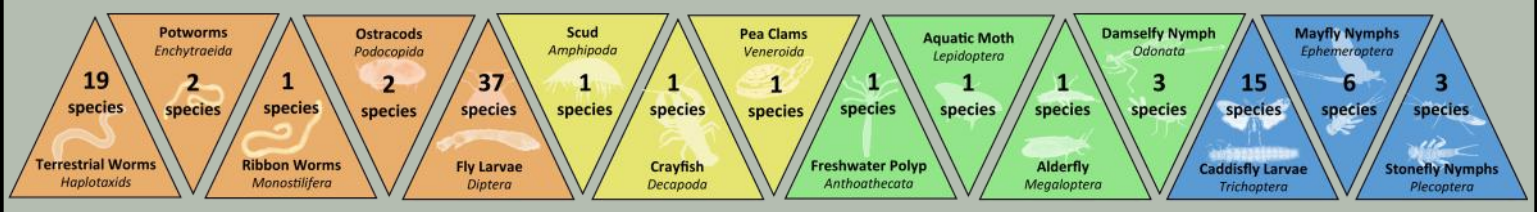
MAP LEGEND

- Ward Boundary
- Watershed Boundary
- Benthic sampling site
- Water sampling site

STREAM HEALTH INDEX
Excellent
Good
Fair
Poor
Insufficient Data

Map of the upper reaches of Junction Creek depicting results from the 2019 fish community assessment, water sampling and benthic macroinvertebrate sampling studies conducted by the Junction Creek Stewardship Committee.

"AQUATIC BUGS" BENTHIC MACROINVERTEBRATES - INDICATOR SPECIES

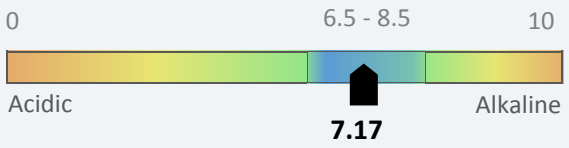


Pollution Tolerant — Pollution Sensitive — Pollution Intolerant

WATER QUALITY ANALYSIS 2004-2019 (10 Sampling Sites)

The water quality targets used are the provincial standards set out by the Provincial Water Quality Objectives (PWQO).

pH

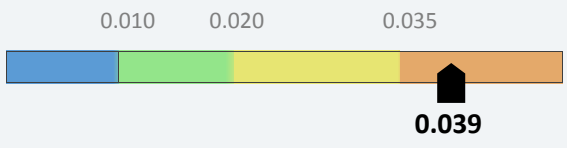


Target: between 6.5 to 8.5 for a healthy stream
Reference Site (Maley Tributary): 6.86

Range (min to max)	Average 2019	Overall Trend
6.03 to 9.10	7.17	Improving

pH levels are "**excellent**".

TOTAL PHOSPHORUS (P) mg/L

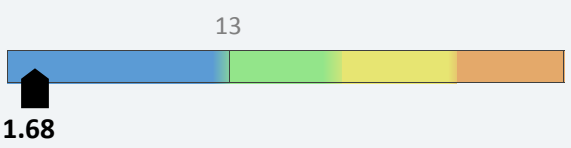


Target: < 0.010 mg/L *(protect against aesthetic deterioration)*
Reference Site (Maley Tributary): 0.036

Range (min to max)	Average 2019	Overall Trend
0.008 to 2.34	0.039	Improving

Most sites levels range from meso-eutrophic to eutrophic levels (which can result in excess plant growth).

NITRATE (NO_3) mg/L

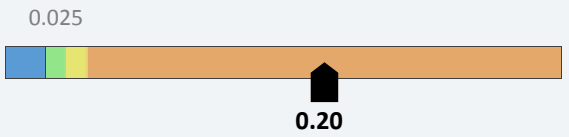


Target*: <13 mg/L (long-term target)
Reference Site (Maley Tributary): 0.35

Range (min to max)	Average 2019	Overall Trend
0.02 to 331.55	1.68	Improving

Nitrate levels are "**excellent**" *(short-term target < 550 mg/L)*
** Standards set by the Canadian Water Quality Guidelines*

NICKEL (Ni) mg/L

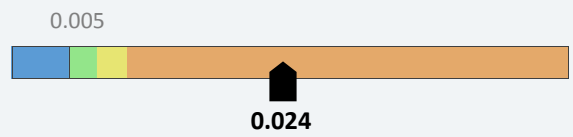


Target: < 0.025 mg/L (for hardness > 180 mg/L)
Reference Site (Maley Tributary): 0.07

Range (min to max)	Average 2019	Overall Trend
0.002 to 5.55	0.20	Improving

Nickel levels are "**poor**" and a contaminant of concern identified by the Sudbury Soil Study.

COPPER (Cu) mg/L

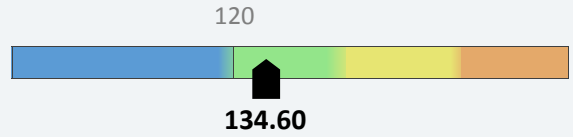


Target: < 0.005 mg/L (for harness > 180 mg/L)
Reference Site (Maley Tributary): 0.021

Range (min to max)	Average 2019	Overall Trend
0.0002 to 0.47	0.024	Varying

Copper levels are "**poor**" and a contaminant of concern identified by the Sudbury Soil Study.

CHLORIDE (Cl) mg/L



Target: < 120mg/L (long-term)
Reference Site (Maley Tributary): 13.97

Range (min to max)	Average 2019	Overall Trend
0.10 to 819.0	134.60	Not Significant

Average chloride levels are "**good**" for long-term target.
Affiliated with winter salt use. Short-term target < 640 mg/L.

MAJOR IMPAIRMENTS & FOCUS FOR RESTORATION EFFORTS

Litter & Stormwater — Degraded Stream Habitats — Invasive Species — Impaired Riparian Buffer — Altered Stream Corridor

Data collected by Junction Creek Stewardship Committee research projects with the assistance from multiple funding agencies, and collaborative partners, including but not limited to: City of Greater Sudbury, Conservation Sudbury, Vale Canada Ltd., Laurentian University, Cambrian College, Cooperative Freshwater Ecology Unit & Vale Living with Lakes Centre, WWF-Canada, and the STREAM Project.

Junction Creek Stewardship Committee
Comité d'intendance du ruisseau Junction
info@junctioncreek.com
(705) 525-8736
junctioncreek.com

October 2021

WARD 7 JUNCTION CREEK STREAM HEALTH AT-A-GLANCE 2019

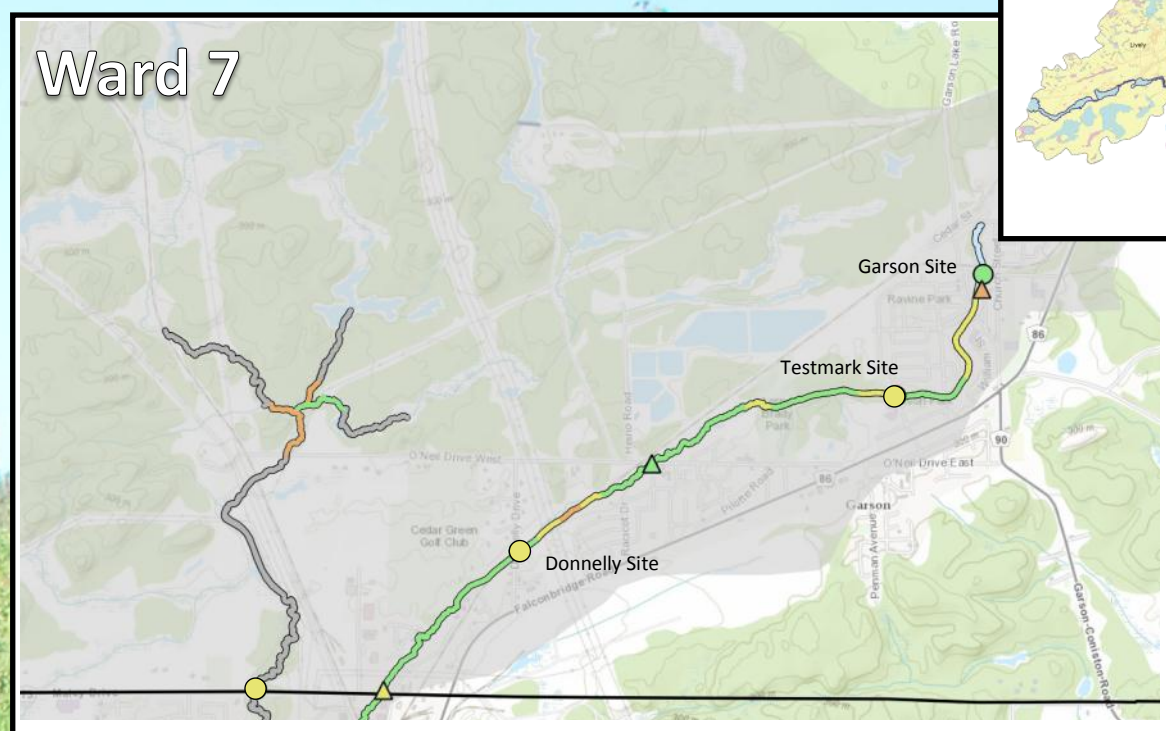
OVERALL STREAM HEALTH SCORE

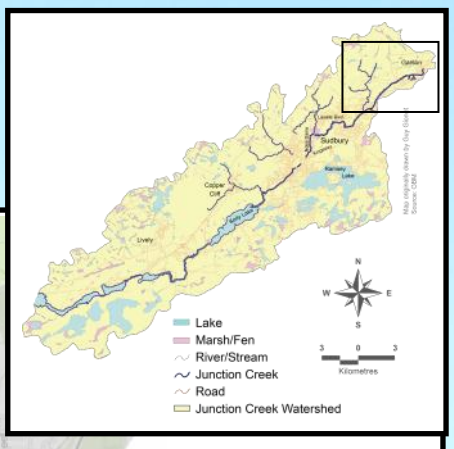
Current Status	Good	Trend	Improving

FISH COMMUNITY

Current Status	Good
Trend	Improving

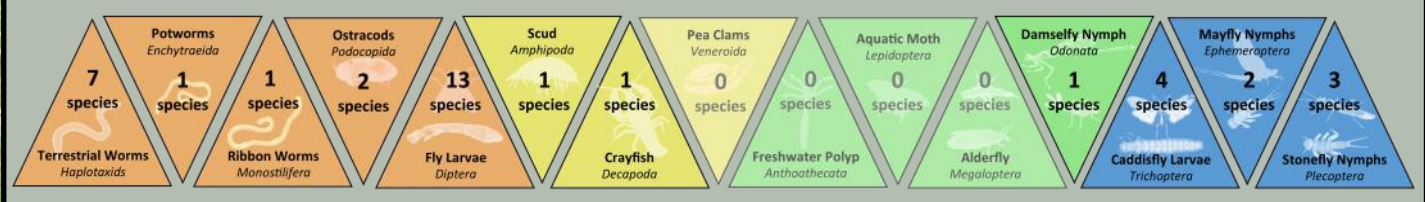
Fish Species	Present
Pollution Intolerant	
Blacknose shiner	✓
Brook trout	
Logperch	
Pollution Sensitive	
Brassy minnow	✓
Common shiner	✓
Finescale dace	✓
Iowa darter	✓
Northern redbelly dace	✓
Pearl dace	✓
Pumpkinseed	✓
Yellow perch	✓
Pollution Tolerant	
Brook stickleback	✓
Brown bullhead	
Central mudminnow	✓
Creek chub	✓
Fathead minnow	✓
Golden shiner	
White sucker	✓





Map of Junction Creek depicting results from the 2019 fish community assessment, water sampling and benthic macroinvertebrate sampling studies conducted by the Junction Creek Stewardship Committee.

"AQUATIC BUGS" BENTHIC MACROINVERTEBRATES - INDICATOR SPECIES



Pollution Tolerant — Pollution Sensitive — Pollution Intolerant

WATER QUALITY ANALYSIS 2004-2019 (Sampling Sites: Garson, Testmark, Donnelly)

Sampling at the Garson and Testmark sites began in 2008. The water quality targets used are the provincial standards set out by the Provincial Water Quality Objectives (PWQO).

pH

0 — 6.5 - 8.5 — 10

Acidic — Alkaline

7.08

Target: between 6.5 to 8.5 for a healthy stream
Reference Site (Maley Tributary): 6.86

Range (min to max)	Average 2019	Trend
6.03 to 8.57	7.08	Improving

pH levels are "**excellent**".

TOTAL PHOSPHORUS (P) mg/L

0.010 — 0.020 — 0.035

0.041

Target: < 0.010 mg/L *(protect against aesthetic deterioration)*
Reference Site (Maley Tributary): 0.036

Range (min to max)	Average 2019	Trend
<0.001 to 2.02	0.041	Improving

Eutrophic levels (which can result in excess plant growth).

NITRATE (NO_3) mg/L

13

4.26

Target*: <13 mg/L (long-term target)
Reference Site (Maley Tributary): 0.35

Range (min to max)	Average 2019	Trend
0.10 to 72.60	4.26	Improving

Nitrate levels are "**excellent**" *(short-term target < 550 mg/L)*
** Standards set by the Canadian Water Quality Guidelines*

NICKEL (Ni) mg/L

0.025

0.23

Target: < 0.025 mg/L (for hardness > 180 mg/L)
Reference Site (Maley Tributary): 0.07

Range (min to max)	Average 2019	Trend
0.02 to 3.36	0.23	Not Significant

Nickel levels are "**poor**".

COPPER (Cu) mg/L

0.005

0.008

Target: < 0.005 mg/L (for harness > 180 mg/L)
Reference Site (Maley Tributary): 0.021

Range (min to max)	Average 2019	Trend
0.001 to 0.465	0.008	Improving

Copper levels are "**fair**".

CHLORIDE (Cl) mg/L

120

207.01

Target: < 120mg/L (long-term)
Reference Site (Maley Tributary): 13.97

Range (min to max)	Average 2019	Trend
17.40 to 735.0	207.01	Deteriorating

Chloride levels are "**fair**" and among the highest.
Affiliated with winter salt use. Short-term target < 640 mg/L

MAJOR IMPAIRMENTS & FOCUS FOR RESTORATION EFFORTS

Contaminants & Stormwater — Aquatic Habitat — Invasive Himalayan Balsam — Impaired Riparian Buffer — Altered Stream Corridor

Data collected by Junction Creek Stewardship Committee research projects with the assistance from multiple funding agencies, and collaborative partners, including but not limited to: City of Greater Sudbury, Conservation Sudbury, Vale Canada Ltd., Laurentian University, Cambrian College, Cooperative Freshwater Ecology Unit & Vale Living with Lakes Centre, WWF-Canada, and the STREAM Project.

Junction Creek Stewardship Committee
Comité d'intendance du ruisseau Junction
info@junctioncreek.com
(705) 525-8736
junctioncreek.com

WARD 8 JUNCTION CREEK STREAM HEALTH AT-A-GLANCE 2019

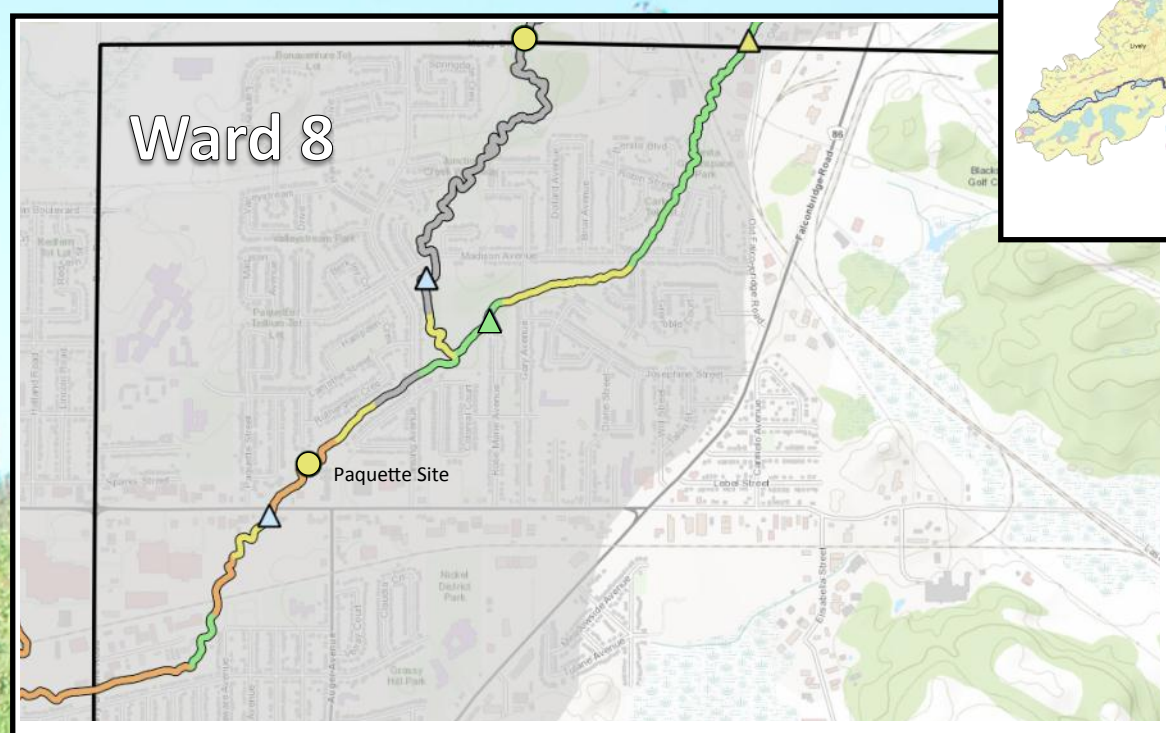
OVERALL STREAM HEALTH SCORE

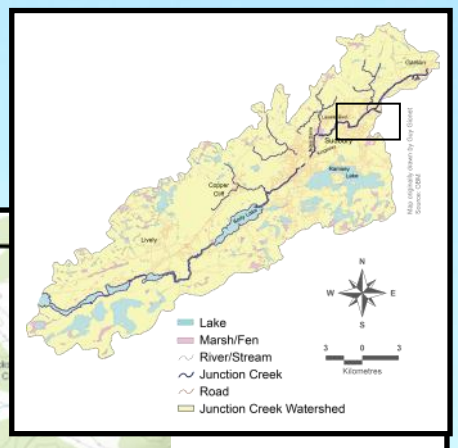
Current Status	Good	Trend	Improving

FISH COMMUNITY

Current Status	Good
Trend	Improving

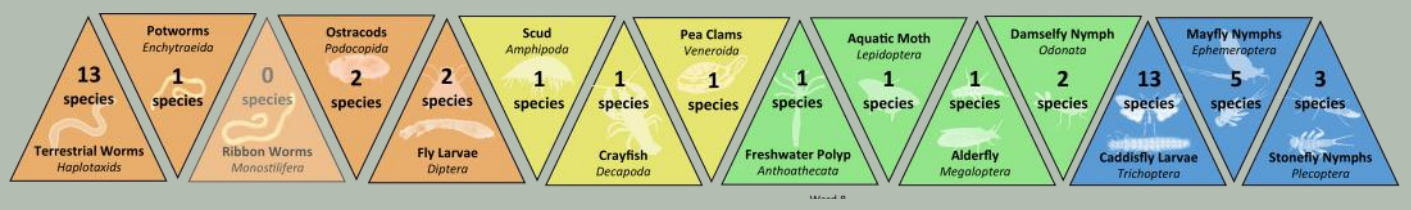
Fish Species	Present
Pollution Intolerant	
Blacknose shiner	✓
Brook trout	✓
Logperch	
Pollution Sensitive	
Brassy minnow	✓
Common shiner	✓
Finescale dace	
Iowa darter	✓
Northern redbelly dace	✓
Pearl dace	✓
Pumpkinseed	✓
Yellow perch	✓
Pollution Tolerant	
Brook stickleback	✓
Brown bullhead	
Central mudminnow	✓
Creek chub	✓
Fathead minnow	✓
Golden shiner	
White sucker	✓





Map of Junction Creek depicting results from the 2019 fish community assessment, water sampling and benthic macroinvertebrate sampling studies conducted by the Junction Creek Stewardship Committee.

"AQUATIC BUGS" BENTHIC MACROINVERTEBRATES - INDICATOR SPECIES

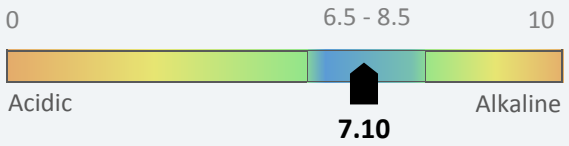


Pollution Tolerant | Pollution Sensitive | Pollution Intolerant

WATER QUALITY ANALYSIS 2004-2019 (Sampling Sites: Paquette)

The water quality targets used are the provincial standards set out by the Provincial Water Quality Objectives (PWQO).

pH

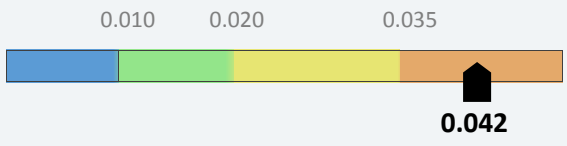


Target: between 6.5 to 8.5 for a healthy stream
Reference Site (Maley Tributary): 6.86

Range (min to max)	Average 2019	Trend
6.41 to 7.79	7.10	Increasing

pH levels are "**excellent**".

TOTAL PHOSPHORUS (P) mg/L

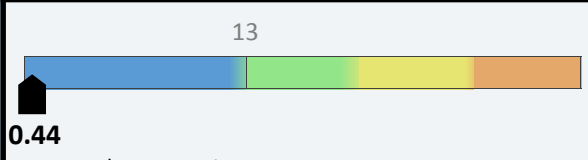


Target: < 0.010 mg/L *(protect against aesthetic deterioration)*
Reference Site (Maley Tributary): 0.036

Range (min to max)	Average 2019	Trend
0.008 to 0.78	0.042	Improving

Eutrophic levels (which can result in excess plant growth).

NITRATE (NO_3) mg/L



Target*: <13 mg/L (long-term target)
Reference Site (Maley Tributary): 0.35

Range (min to max)	Average 2019	Trend
0.14 to 15.3	0.44	Not Significant

Nitrate levels are "**excellent**" *(short-term target < 550 mg/L)*
** Standards set by the Canadian Water Quality Guidelines*

NICKEL (Ni) mg/L

Target: < 0.025 mg/L (for hardness > 180 mg/L)
Reference Site (Maley Tributary): 0.07

Range (min to max)	Average 2019	Trend
0.03 to 0.36	0.09	Not Significant

Nickel levels are "**poor**".

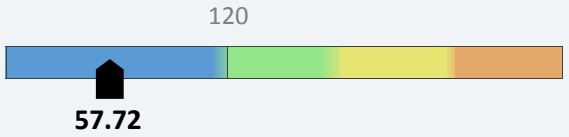
COPPER (Cu) mg/L

Target: < 0.005 mg/L (for harness > 180 mg/L)
Reference Site (Maley Tributary): 0.021

Range (min to max)	Average 2019	Trend
0.002 to 0.107	0.013	Deteriorating

Copper levels are "**poor**".

CHLORIDE (Cl) mg/L



Target: < 120mg/L (long-term)
Reference Site (Maley Tributary): 13.97

Range (min to max)	Average 2019	Trend
9.52 to 608.3	57.72	Not Significant

Average chloride levels are "**excellent**".
Affiliated with winter salt use. Short-term target < 640 mg/L

MAJOR IMPAIRMENTS & FOCUS FOR RESTORATION EFFORTS

Litter & Stormwater | Brook Trout Habitat | Invasive species | Natural Infrastructure | Streambank Erosion

Data collected by Junction Creek Stewardship Committee research projects with the assistance from multiple funding agencies, and collaborative partners, including but not limited to: City of Greater Sudbury, Conservation Sudbury, Vale Canada Ltd., Laurentian University, Cambrian College, Cooperative Freshwater Ecology Unit & Vale Living with Lakes Centre, WWF-Canada, and the STREAM Project.

Junction Creek Stewardship Committee
Comité d'intendance du ruisseau Junction
info@junctioncreek.com
(705) 525-8736
junctioncreek.com

October 2021

WARDS 5, 11 & 12 JUNCTION CREEK STREAM HEALTH AT-A-GLANCE

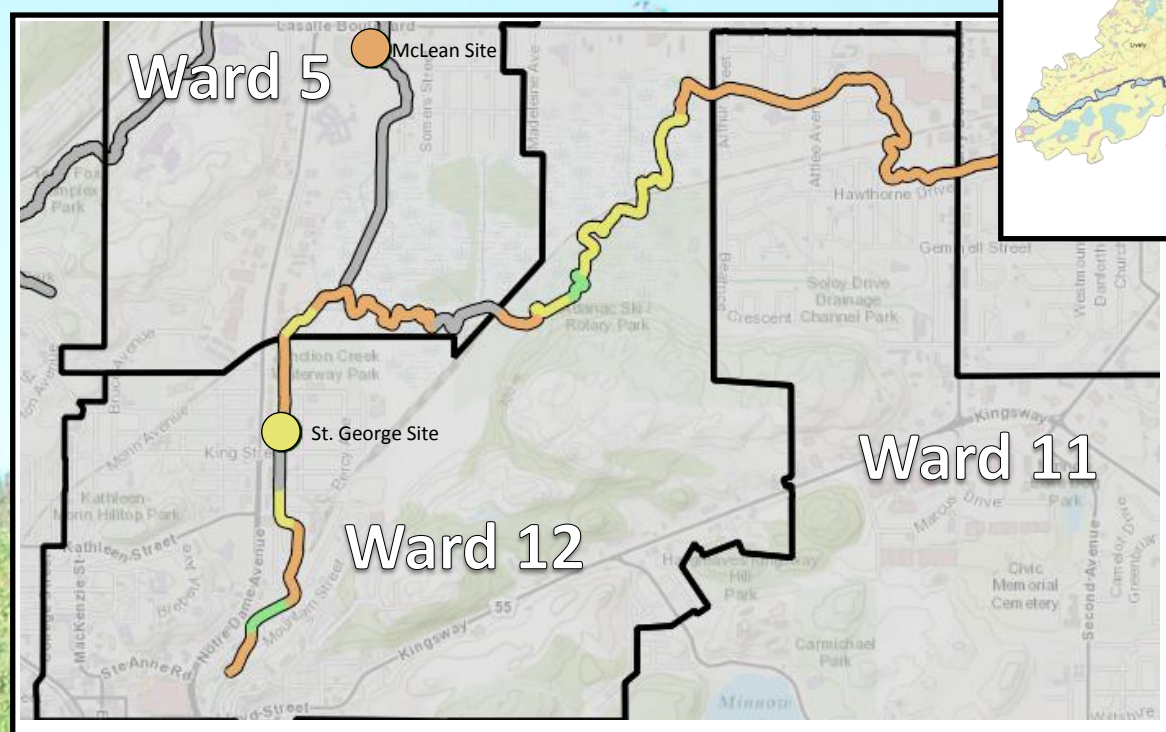
OVERALL STREAM HEALTH SCORE

Current Status	Fair	Trend	Improving

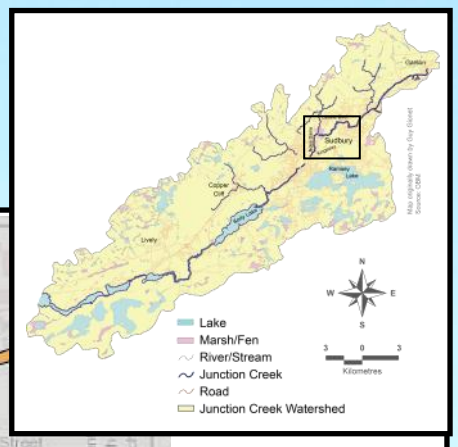
FISH COMMUNITY

Current Status	Poor
Trend	Improving

Fish Species	Present
Pollution Intolerant	
Blacknose shiner	
Brook trout	
Logperch	✓
Pollution Sensitive	
Brassy minnow	✓
Common shiner	✓
Finescale dace	
Iowa darter	✓
Northern redbelly dace	✓
Pearl dace	✓
Pumpkinseed	
Yellow perch	✓
Pollution Tolerant	
Brook stickleback	✓
Brown bullhead	✓
Central mudminnow	✓
Creek chub	✓
Fathead minnow	✓
Golden shiner	
White sucker	✓



Map of Junction Creek depicting results from the 2019 fish community assessment, water sampling and benthic macroinvertebrate sampling studies conducted by the Junction Creek Stewardship Committee.



MAP LEGEND

- Ward Boundary
- Watershed Boundary
- Benthic sampling site
- Water sampling site

STREAM HEALTH INDEX
Excellent
Good
Fair
Poor
Insufficient Data

"AQUATIC BUGS" BENTHIC MACROINVERTEBRATES - INDICATOR SPECIES

No benthic macroinvertebrate surveys were conducted in this section of Junction Creek in 2019

WATER QUALITY ANALYSIS 2004-2019 (Sampling Sites: McLean, St. George)

The water quality targets used are the provincial standards set out by the Provincial Water Quality Objectives (PWQO).

pH

0 — 6.5 - 8.5 — 10

Acidic — Alkaline

7.11

Target: between 6.5 to 8.5 for a healthy stream
Reference Site (Maley Tributary): 6.86

Range (min to max)	Average 2019	Trend
6.33 to 7.84	7.11	Improving

pH levels are "**excellent**".

TOTAL PHOSPHORUS (P) mg/L

0.010 — 0.020 — 0.035

0.038

Target: < 0.010 mg/L *(protect against aesthetic deterioration)*
Reference Site (Maley Tributary): 0.036

Range (min to max)	Average 2019	Trend
0.008 to 1.27	0.038	Improving

Eutrophic levels (which can result in excess plant growth).

NITRATE (NO_3) mg/L

13

0.78

Target*: <13 mg/L (long-term target)
Reference Site (Maley Tributary): 0.35

Range (min to max)	Average 2019	Trend
0.13 to 9.39	0.78	Deteriorating

Nitrate levels are "**excellent**" *(short-term target < 550 mg/L)*
** Standards set by the Canadian Water Quality Guidelines*

NICKEL (Ni) mg/L

0.025

0.16

Target: < 0.025 mg/L (for hardness > 180 mg/L)
Reference Site (Maley Tributary): 0.07

Range (min to max)	Average 2019	Trend
0.02 to 5.55	0.16	Improving

Nickel levels are "**poor**" with McLean site having some of the highest concentrations.

COPPER (Cu) mg/L

0.005

0.033

Target: < 0.005 mg/L (for harness > 180 mg/L)
Reference Site (Maley Tributary): 0.021

Range (min to max)	Average 2019	Trend
0.0002 to 0.38	0.033	Not Significant

Copper levels are "**poor**" with McLean site having some of the highest concentrations.

CHLORIDE (Cl) mg/L

120

133.19

Target: < 120mg/L (long-term)
Reference Site (Maley Tributary): 13.97

Range (min to max)	Average 2019	Trend
3.39 to 781.8	133.19	Not Significant

Average chloride levels are "**good**".
Affiliated with winter salt use. Short-term target < 640 mg/L

MAJOR IMPAIRMENTS & FOCUS FOR RESTORATION EFFORTS

Litter & Stormwater | Recovering Ecosystems | Invasive Eurasian Watermilfoil | Impaired Riparian Buffer | Altered Stream Corridor

Data collected by Junction Creek Stewardship Committee research projects with the assistance from multiple funding agencies, and collaborative partners, including but not limited to: City of Greater Sudbury, Conservation Sudbury, Vale Canada Ltd., Laurentian University, Cambrian College, Cooperative Freshwater Ecology Unit & Vale Living with Lakes Centre, WWF-Canada, and the STREAM Project.

Junction Creek Stewardship Committee
Comité d'intendance du ruisseau Junction
info@junctioncreek.com
(705) 525-8736
junctioncreek.com

October 2021

WARD 10 JUNCTION CREEK STREAM HEALTH AT-A-GLANCE 2019

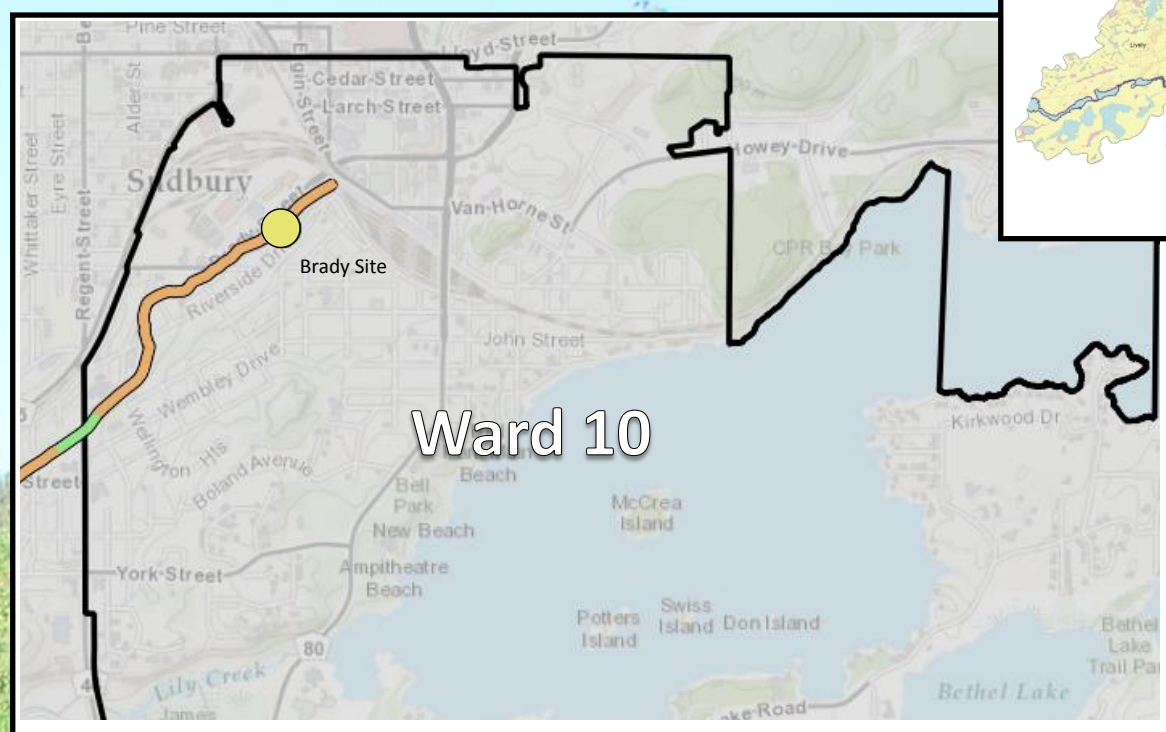
OVERALL STREAM HEALTH SCORE

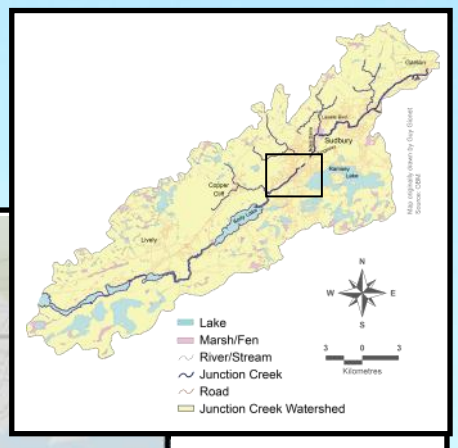
Current Status	Fair	Trend	Improving

FISH COMMUNITY

Current Status	Poor
Trend	Deteriorating

Fish Species	Present
Pollution Intolerant	
Blacknose shiner	
Brook trout	
Logperch	
Pollution Sensitive	
Brassy minnow	
Common shiner	
Finescale dace	
Iowa darter	
Northern redbelly dace	
Pearl dace	
Pumpkinseed	
Yellow perch	✓
Pollution Tolerant	
Brook stickleback	
Brown bullhead	
Central mudminnow	
Creek chub	✓
Fathead minnow	✓
Golden shiner	
White sucker	✓





MAP LEGEND

- Ward Boundary
- Watershed Boundary
- Benthic sampling site
- Water sampling site

STREAM HEALTH INDEX
Excellent
Good
Fair
Poor
Insufficient Data

Map of Junction Creek depicting results from the 2019 fish community assessment, water sampling and benthic macroinvertebrate sampling studies conducted by the Junction Creek Stewardship Committee.

"AQUATIC BUGS" BENTHIC MACROINVERTEBRATES - INDICATOR SPECIES

No benthic macroinvertebrate surveys were conducted in this section of Junction Creek in 2019

WATER QUALITY ANALYSIS 2004-2019 (Sampling Sites: Brady)

The water quality targets used are the provincial standards set out by the Provincial Water Quality Objectives (PWQO).

pH

0 — 6.5 - 8.5 — 10

Acidic — Alkaline

7.14

Target: between 6.5 to 8.5 for a healthy stream
Reference Site (Maley Tributary): 6.86

Range (min to max)	Average 2019	Trend
6.55 to 7.82	7.14	Improving

pH levels are "**excellent**".

TOTAL PHOSPHORUS (P) mg/L

0.010 — 0.020 — 0.035

0.043

Target: < 0.010 mg/L *(protect against aesthetic deterioration)*
Reference Site (Maley Tributary): 0.036

Range (min to max)	Average 2019	Trend
0.008 to 0.695	0.043	Improving

Eutrophic levels (which can result in excess plant growth).

NITRATE (NO_3) mg/L

13

0.78

Target*: <13 mg/L (long-term target)
Reference Site (Maley Tributary): 0.35

Range (min to max)	Average 2019	Trend
0.02 to 20.9	0.35	Improving

Nitrate levels are "**excellent**" *(short-term target < 550 mg/L)*
** Standards set by the Canadian Water Quality Guidelines*

NICKEL (Ni) mg/L

0.025

0.13

Target: < 0.025 mg/L (for hardness > 180 mg/L)
Reference Site (Maley Tributary): 0.07

Range (min to max)	Average 2019	Trend
0.077 to 2.09	0.13	Improving

Nickel levels are "**poor**".

COPPER (Cu) mg/L

0.005

0.046

Target: < 0.005 mg/L (for harness > 180 mg/L)
Reference Site (Maley Tributary): 0.021

Range (min to max)	Average 2019	Trend
0.002 to 0.31	0.046	Improving

Copper levels are "**poor**" with Brady site having some of the highest concentrations.

CHLORIDE (Cl) mg/L

120

123.60

Target: < 120mg/L (long-term)
Reference Site (Maley Tributary): 13.97

Range (min to max)	Average 2019	Trend
4.67 to 705.0	123.60	Not Significant

Affiliated with winter salt use. Average chloride levels are "**good**", at times exceed the *short-term target < 640 mg/L.*

MAJOR IMPAIRMENTS & FOCUS FOR RESTORATION EFFORTS

Litter & Stormwater

Impaired Aquatic Habitat

Impaired Riparian Buffer

Altered Stream Corridor

Data collected by Junction Creek Stewardship Committee research projects with the assistance from multiple funding agencies, and collaborative partners, including but not limited to: City of Greater Sudbury, Conservation Sudbury, Vale Canada Ltd., Laurentian University, Cambrian College, Cooperative Freshwater Ecology Unit & Vale Living with Lakes Centre, WWF-Canada, and the STREAM Project.

Junction Creek Stewardship Committee
Comité d'intendance du ruisseau Junction
info@junctioncreek.com
(705) 525-8736
junctioncreek.com

October 2021

WARD 1 JUNCTION CREEK STREAM HEALTH AT-A-GLANCE 2019

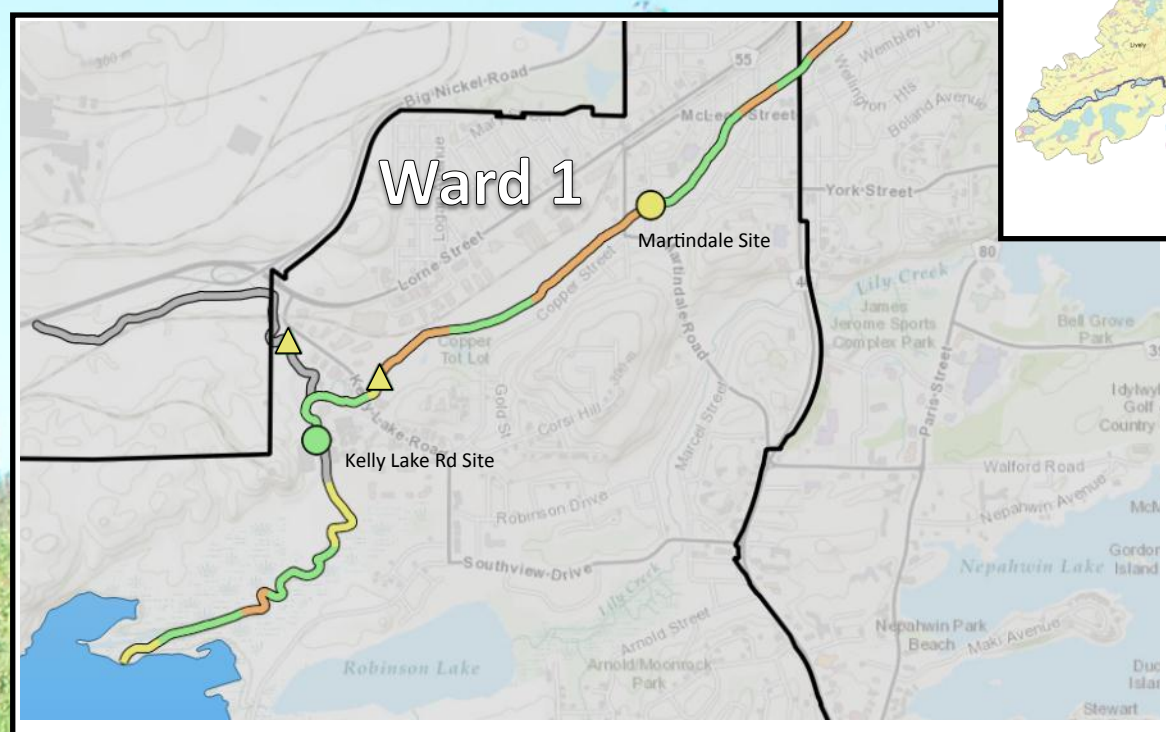
OVERALL STREAM HEALTH SCORE

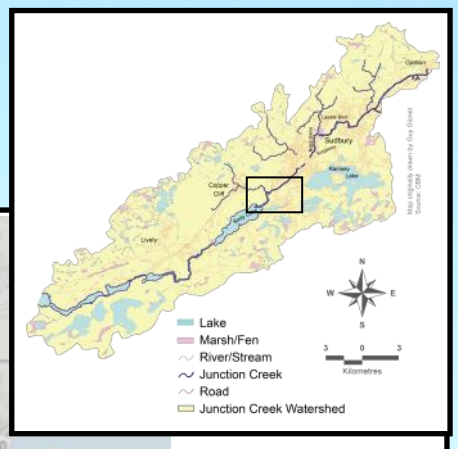
Current Status	Fair	Trend	Improving

FISH COMMUNITY

Current Status	Fair
Trend	Improving

Fish Species	Present
Pollution Intolerant	
Blacknose shiner	✓
Brook trout	
Logperch	✓
Pollution Sensitive	
Brassy minnow	✓
Common shiner	✓
Finescale dace	
Iowa darter	✓
Northern redbelly dace	
Pearl dace	✓
Pumpkinseed	✓
Yellow perch	✓
Pollution Tolerant	
Brook stickleback	✓
Brown bullhead	
Central mudminnow	✓
Creek chub	✓
Fathead minnow	✓
Golden shiner	
White sucker	✓





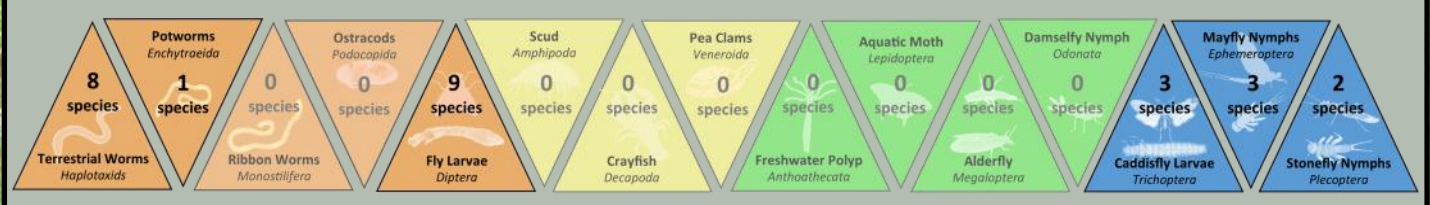
MAP LEGEND

- Ward Boundary
- Watershed Boundary
- Benthic sampling site
- Water sampling site

STREAM HEALTH INDEX
Excellent
Good
Fair
Poor
Insufficient Data

Map of Junction Creek depicting results from the 2019 fish community assessment, water sampling and benthic macroinvertebrate sampling studies conducted by the Junction Creek Stewardship Committee.

"AQUATIC BUGS" BENTHIC MACROINVERTEBRATES - INDICATOR SPECIES



Pollution Tolerant | Pollution Sensitive | Pollution Intolerant

WATER QUALITY ANALYSIS 2004-2019 (Sampling Sites: Martindale, Kelly Lake Rd)

Sampling at the Martindale site began in 2008. The water quality targets used are the provincial standards set out by the Provincial Water Quality Objectives (PWQO).

pH

0 | 6.5 - 8.5 | 10

Acidic — Alkaline

7.59

Target: between 6.5 to 8.5 for a healthy stream
Reference Site (Maley Tributary): 6.86

Range (min to max)	Average 2019	Trend
6.71 to 9.10	7.59	Increasing

pH levels are "**excellent**". Kelly Lake Rd sampling site shows an increase in pH with great variation.

TOTAL PHOSPHORUS (P) mg/L

0.010 | 0.020 | 0.035

0.040

Target: < 0.010 mg/L *(protect against aesthetic deterioration)*
Reference Site (Maley Tributary): 0.036

Range (min to max)	Average 2019	Trend
0.008 to 2.34	0.040	Improving

Eutrophic levels (which can result in excess plant growth).

NITRATE (NO_3) mg/L

13

0.59

Target*: <13 mg/L (long-term target)
Reference Site (Maley Tributary): 0.35

Range (min to max)	Average 2019	Trend
0.04 to 331.55	0.59	Improving

Nitrate levels are "**excellent**" *(short-term target < 550 mg/L)*
** Standards set by the Canadian Water Quality Guidelines*

NICKEL (Ni) mg/L

0.025

0.32

Target: < 0.025 mg/L (for hardness > 180 mg/L)
Reference Site (Maley Tributary): 0.07

Range (min to max)	Average 2019	Trend
0.002 to 5.38	0.32	Improving

Nickel levels are "**poor**". Kelly Lake Rd sampling site is has some of the highest concentrations of Nickel.

COPPER (Cu) mg/L

0.005

0.038

Target: < 0.005 mg/L (for harness > 180 mg/L)
Reference Site (Maley Tributary): 0.021

Range (min to max)	Average 2019	Trend
0.002 to 0.32	0.038	Improving

Copper levels are "**poor**". Both sites have some of the highest concentrations of Copper.

CHLORIDE (Cl) mg/L

120

129.59

Target: < 120mg/L (long-term)
Reference Site (Maley Tributary): 13.97

Range (min to max)	Average 2019	Trend
0.93 to 819.0	129.59	Not Significant

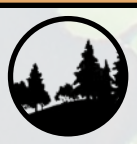
Average chloride levels are "**good**". Among the highest at Kelly Lake Rd sampling site. *Short-term target < 640 mg/L*

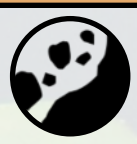
MAJOR IMPAIRMENTS & FOCUS FOR RESTORATION EFFORTS


In-stream Litter


High Temp. & Runoff Contaminants


Invasive Himalayan Balsam


Semi-barren Riparian Buffer


Streambank Erosion

Data collected by Junction Creek Stewardship Committee research projects with the assistance from multiple funding agencies, and collaborative partners, including but not limited to: City of Greater Sudbury, Conservation Sudbury, Vale Canada Ltd., Laurentian University, Cambrian College, Cooperative Freshwater Ecology Unit & Vale Living with Lakes Centre, WWF-Canada, and the STREAM Project.

Junction Creek Stewardship Committee
Comité d'intendance du ruisseau Junction
info@junctioncreek.com
(705) 525-8736
junctioncreek.com

October 2021