DE BEERS GROUP

Beth Cowan
Regulatory Specialist
Mackenzie Valley Land and Water Board
7th Floor, 4922 48th St. PO Box 2130, Yellowknife, NT
Canada | X1A 2P6

May 24, 2024

Dear Ms. Cowan:

Re: Snap Lake SNP Station Discontinuance (MV2019L2-0004)

De Beers is writing to seek discontinuance of seven of the SNP stations at the Snap Lake Mine.

Active closure has been progressing well at Snap Lake Mine. Many of the closure activities described in the Final Closure and Reclamation Plan V1.5 have been completed, while others remain on track for completion over the next several months. Placement of the engineered rock cover on the North Pile and construction of the influent storage ponds is well underway. The passive drainage channels that convey water from the North Pile to the influent storage ponds are nearly complete. The process plant, power plant, truck shop, and several support buildings have been demolished. Most of the hazardous waste has been removed and non-hazardous waste has been placed in the landfill. Active demolition and rehabilitation efforts will continue throughout 2024 and conclude at the end of the demobilisation from site in 2025.

Although De Beers has made tremendous progress, the transition from active closure to post-closure is not instantaneous. Some post-closure features envisioned in the Final Closure Plan V1.5 are established (e.g. the west influent storage pond), while others are still in development (e.g. final grading of drainage channels). Most of the mining infrastructure has been demolished (e.g. the process plant, water treatment plant, cold storage building) while others remain in use (e.g. the main camp and a few ancillary structures).

The water licence defines the monitoring requirements for Surveillance Network (SNP) stations in terms of whether the station is expected to be active in closure, post-closure, or both. In reality, the site is part way between closure and post-closure. For this reason, each station should be considered independently. Some stations are located in areas that reflect the closure state, while others have

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transitioned into a post-closure configuration. To ensure the SNP program continues to align with reality and serve as a useful program for monitoring water quality around site, De Beers is seeking discontinuance of several SNP stations that are no longer relevant.

We look forward to your review and approval of this request. If you have any further questions, please contact me at 1-867-688-9227 or at sarah.mclean@debeersgroup.com.

Sincerely,

Sarah McLean
Environment & Permitting Manager
De Beers Group

Cc: Tom Bradbury, GNWT
Michelle Peters, DBCI
Jacqueline Ho, MVLWB

Introduction

De Beers has been actively closing and reclaiming the Snap Lake mine site since 2022. Monitoring under the Surveillance Network Program (SNP) has continued throughout this closure period. As active closure is nearing completion, several of the SNP closure stations are no longer needed, or no longer relevant for monitoring site conditions or have otherwise become inaccessible or practically obsolete. De Beers is therefore applying to discontinue several of the stations.

Table 1 describes the current monitoring requirements at each of the stations that De Beers is seeking to discontinue. Figure 1 illustrates the locations of the SNP stations De Beers is seeking to discontinue as well as the stations that De Beers will retain. A detailed rationale for the discontinuance of each station is provided in the following sections for the Mackenzie Valley Land and Water Board's (MVLWB) consideration.

Table 1. SNP Stations to be discontinued.

SNP Station	Description/Rationale	Frequency	Parameters	De Beers Request
02-02	North Pile drainage collection ditch north of Water Management Pond Closure monitoring to evaluate the quantity and quality of all Seepage and Runoff coming from the North Pile Facility. Discontinue during Post-Closure because Sumps will be allowed to flow into Passive Water Treatment System.	Continuously by in-line monitoring during pumping operations	Flow, temperature, pH, conductivity, turbidity	Discontinue immediately – station no longer collects seepage and runoff from the North Pile
		Every two weeks during discharge	Turbidity, TSS, pH, conductivity, major ions[1], nutrients[2], CCMS scan[3] (total and dissolved), total mercury, total petroleum hydrocarbons, BTEX[4]	
02-11	Seepage monitoring well downgradient from the Water Management Pond Dam 1, near Snap Lake shoreline.	Monthly during periods of occupancy	Water levels	Discontinue immediately – station destroyed during construction of East Influent
		Once annually during spring freshet	Turbidity, TSS, pH, conductivity, major ions[1], nutrients[2],	

SNP Station	Description/Rationale	Frequency	Parameters	De Beers Request
			CCMS scan[3] (total and dissolved), total mercury, total petroleum hydrocarbons, BTEX[4]	Storage Pond and no longer relevant
02-14	Water Management Pond Closure monitoring to monitor water quality in the Water Management Pond.	Continuously when pumping to the Water Treatment Plant	Flow	Discontinue immediately – the Water Treatment Plant is no longer in operation; water collecting in the area of the former Water Management Pond will be pumped to the Influent Storage Pond.
		Every two weeks during Discharge	Turbidity, TSS, pH, conductivity, major ions[1], nutrients[2], CCMS scan[3] (total and dissolved), total mercury, total petroleum hydrocarbons, BTEX[4]	
02-17b	Final Combined Water Treatment Plant and Sewage Treatment Plant Effluent that is discharged via a diffuser into Snap Lake. Water Licence Compliance Monitoring during Active Closure. Discontinue during Post-Closure because Discharge will not occur at this location during Post-Closure.	Continuously, by in-line monitoring during periods of flow	Flow, pH, temperature, conductivity, turbidity	Discontinue immediately – the diffuser has been disconnected; Discharge is no longer possible at this location.
		Weekly during Discharge	TDS (measured and calculated[8]), nutrients[2], TSS, turbidity, conductivity, faecal coliforms, total petroleum hydrocarbons	
		Once monthly during Discharge	Acute toxicity tests[5]	
		Once quarterly during Discharge	Chronic toxicity tests[5]	

SNP Station	Description/Rationale	Frequency	Parameters	De Beers Request
		Monthly during Discharge	TDS (measured and calculated[8]), nutrients[2], TSS, turbidity, conductivity, faecal coliforms, major ions[1], CCMS scan[3] (total only), total mercury, total petroleum hydrocarbons, BTEX[4], E. Coli, oil and grease, CBOD	
02-20d, 02-20e, 02-20f	In Snap Lake, one of three stations located in a radius of 120 degrees at 200 m from the diffuser, on the edge of the mixing zone around the diffuser. Closure Monitoring to evaluate whether Water Quality Objectives are being met at the edge of the mixing zone.	Monthly during Discharge	Turbidity, TDS (measured and calculated[8]), TSS, pH, conductivity, major ions[1], nutrients[2], CBOD, CCMS scan[3] (total only), total mercury.	Discontinue immediately – the diffuser has been disconnected; Discharge is no longer possible at this location. Any future monitoring at these stations will be as per the AEMP.
		Once annually	At depth of maximum conductivity (or mid-depth if no conductivity peak is observed) for chronic toxicity tests[6]	

Figure 1: SNP Stations overlayed onto a 2023 satellite image of Snap Lake Mine with the design drawings for closure features. Yellow circles indicate stations to be discontinued. Green circles indicate stations to be retained .

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SNP 02-02 North Pile drainage collection ditch north of Water Management Pond

This station was established to evaluate the quantity and quality of seepage and runoff coming from the North Pile Facility. It was meant to be discontinued during Post-Closure because Influent Storage Ponds will be allowed to flow into Passive Water Treatment System.

SNP station 02-02 is located north of the Water Management Pond. Historically, SNP station 02-02 collected water from the North Pile sumps and directed it to the Water Management Pond. Reconstruction of the ditches began in 2022 to re-route water to the Influent Storage Ponds. Although final grading and rip-rap placement will continue during the 2024 construction season, the ditches are already functioning as intended and directing water to the Influent Storage Ponds. The former ditch at SNP station 02-02 no longer receives runoff and seepage from the North Pile. Runoff and seepage from the North Pile is now monitored at SNP station 02-02b (East Influent Storage Pond) and SNP station 02-02c (West Influent Storage Pond). SNP station 02-02 is now overlaid by the outlet channel for the East Influent Storage Pond. The area is dry and has not yet been used to convey water. When it is used to discharge water to Snap Lake, SNP station 02-17c will be used to monitor that water prior to discharge.

SNP station 02-02 was not monitored in 2023 because it was no longer functioning as a ditch to collect water from the North Pile. SNP station 02-02 is no longer relevant to the monitoring of seepage and runoff from the North Pile.

De Beers is proposing to discontinue the station permanently for the following reasons:

1) The drainage channels around the North Pile have been reconstructed to direct water to the West Influent Storage Pond and East Influent Storage Pond as per the North Pile Design and Construction Plan. Runoff and seepage water is no longer directed through the former North Pile drainage collection ditch to the Water Management Pond.
2) SNP station 02-02 is now overlaid by the East Influent Storage Pond outlet channel. The East Influent Storage Pond outlet channel remains under construction and is expected to be utilized for the first time later in 2024 or 2025. When water is discharged via this channel, it will be monitored using SNP station 02-17c.

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SNP 02-14 Water Management Pond

This station was established to evaluate the water quality in the Water Management Pond. It was meant to be discontinued during Post-Closure when water is no longer being pumped to the Water Treatment Plant.

SNP station 02-14 was an in-line station located along the pipe from the Water Management Pond to the Water Treatment Plant. The Water Treatment Plant has been decommissioned and the connection to the Water Management Pond has been severed. There is no longer pumping of water from the former Water Management Pond to the Water Treatment Plant as envisioned by the water licence. The Water Management Pond is currently under re-construction as part of the closure design. Water that accumulates in this area during construction will be pumped to the Influent Storage Ponds where it will be monitored prior to discharge.

De Beers is proposing to discontinue the station permanently for the following reasons:

1) The Water Management Pond no longer exists
2) Water is no longer pumped from the Water Management Pond to the Water Treatment Plant. The Water Treatment Plant is no longer in operation.
3) Water that accumulates in the vicinity of the former Water Management Pond will be pumped to the Influent Storage Ponds where it will be monitored prior to discharge.

SNP 02-11 Seepage monitoring well downgradient from Water Management Pond Dam 1, near Snap Lake shoreline

This station was established to evaluate the performance of Dam 1 while in use. It is a groundwater monitoring station where water level is measured once per month during periods of occupancy (and when not frozen) and a water quality sample is taken once annually during spring freshet. There were no elevation data collected from 2017 to 2021 due to insufficient recharge to obtain a sample. A summary of the water quality data collected at this station is also provided in Figures 2-69.

De Beers requested that this station be eliminated from the water licence during the water licence renewal process initiated in 2019. De Beers provided a detailed rationale for the request as part of the Response to Undertakings (De Beers Dec.16, 2019 Response to Undertakings Attachment 4i). ENR and SLEMA both recommended retaining SNP station 02-11 due to an increasing trend in sulphate in the water quality results. The MVLWB included the station in the renewed water licence.

Now that an additional five years of time has passed, and significant closure activities have been implemented, De Beers is once again requesting removal of this station from the water licence. Additional rationale and supporting data have been provided below.

De Beers is proposing to discontinue the station permanently for the following reasons:

1) This station was within the design footprint of the East Influent Storage Pond outlet channel (constrained by topography to meet design basis). An attempt to preserve the standpipe within the western slope of channel was made ahead of blasting for construction, but it was unsuccessful. The station was destroyed and notification was issued to the MVLWB on April 9, 2024.
2) There is no alternative well in the vicinity that could replace it. SNP station 02-12, a former well in the area, is permanently frozen and was monitored only infrequently during operations due to frozen conditions.
3) De Beers does not have a drilling rig which could establish a new well in this area. The earliest a rig could be brought to site to re-establish a well would be March of 2025 on the winter road. Doing so would come at a significant expense.
4) Data collected at this location are of no value to the structural assessment by the Engineer of Record of Dam 1. The data are not included in the annual inspections required under the Final Closure Plan or the North Pile Design and Construction plans.

5) There was insufficient water available in the well to collect a water quality sample between 2018 and 2022. The sample collected in 2023 had values generally within the range of values for most parameters collected between 2003 and 2016. Sulphate values were actually much lower than historic values.
6) Data collected at this station have not indicated any issue with the performance of Dam 1 in the past, nor have they indicated any sign of ARD or oxidation.
7) The geochemical inspections did not indicate any signs of ARD at Dam 1.
8) The quality of water collected from the North Pile is already monitored in both the Influent Storage Ponds (02b and 02c), and the discharge from those ponds (02-17c and 17d). These stations monitor the vast majority of water from within the mine catchment area that eventually reports to Snap Lake.
9) Dam 1 will be breached as part of the transition to passive discharge. Dam breaching is expected to occur sometime between 2026 and 2027, therefore the maximum period during which a newly established SNP station 02-11 could theoretically be monitored is just 2025-2027.

For all of these reasons, we do not believe that drilling a new well near the former location of SNP station 02-11 is warranted and we are requesting discontinuance of the station.

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SNP 02-17b Final Combined Water Treatment Plant and Sewage Treatment Plant Effluent that is discharged via a diffuser into Snap Lake

The purpose of this station is to monitor water that is discharged from the Water Treatment Plant and Sewage Treatment Plant via the diffuser to Snap Lake. The station is an in-line station used to monitor water flow, pH, temperature, conductivity, and turbidity continuously during discharge. As per Annex A of the water licence, a water quality sample is taken weekly during periods of discharge. An acute toxicity sample is taken monthly, and a chronic toxicity sample is taken annually during periods of discharge. Additional water quality parameters are also analysed monthly during discharge.

This station has been monitored throughout operations and during the closure period during periods of discharge. As part of approved closure activities, De Beers decommissioned the Water Treatment Plant and disconnected the diffuser in 2023. Complete demolition of the Water Treatment Plant and diffuser is planned for the summer of 2024.

The Sewage Treatment Plant effluent continues to be sampled at SNP station 02-16j prior to discharge to the Water Management Pond or to one of the Influent Storage Ponds. The Influent Storage Ponds (02-17c and 02-17d) are sampled again prior to discharge to Snap Lake.

De Beers is requesting discontinuance of SNP 02-17b for the following reasons:

1) The diffuser is disconnected from the Water Treatment Plant. It is no longer possible to discharge from this location.
2) Although the site remains in closure, this particular aspect of the closure activities has been completed.

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SNP 02-20 d,e,f in Snap Lake, one of three stations located in a radius of 120 degrees at 200 m from the diffuser, on the edge of the mixing zone around the diffuser

The purpose of these stations is to monitor water at the edge of the mixing zone within Snap Lake in a radius around the diffuser outflow. As per Annex A of the water licence, a water quality sample is taken monthly during periods of discharge and a chronic toxicity sample is taken annually.

These stations have been monitored throughout operations and during the closure period during periods of discharge. As part of approved closure activities, De Beers decommissioned the Water Treatment Plant and disconnected the diffuser in 2023. Complete demolition of the Water Treatment Plant and diffuser is planned for the summer of 2024.

De Beers is requesting discontinuance of SNP stations 02-20 d, e, and f for the following reasons:

1) The diffuser is disconnected from the Water Treatment Plant. It is no longer possible to discharge from this location.
2) Although the site is still in closure, this particular aspect of the closure activities has been completed.
3) These stations will be monitored as described in the AEMP Design Plan.

Figure 2: Total Dissolved Solids, calculated (lab) Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

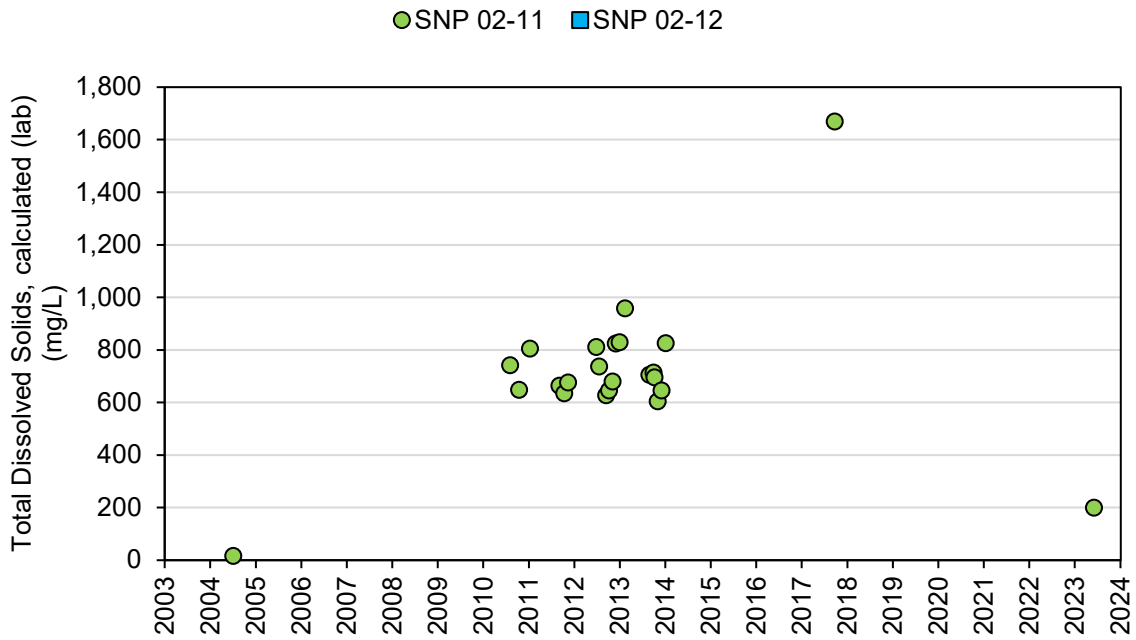

Figure 3: Calcium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

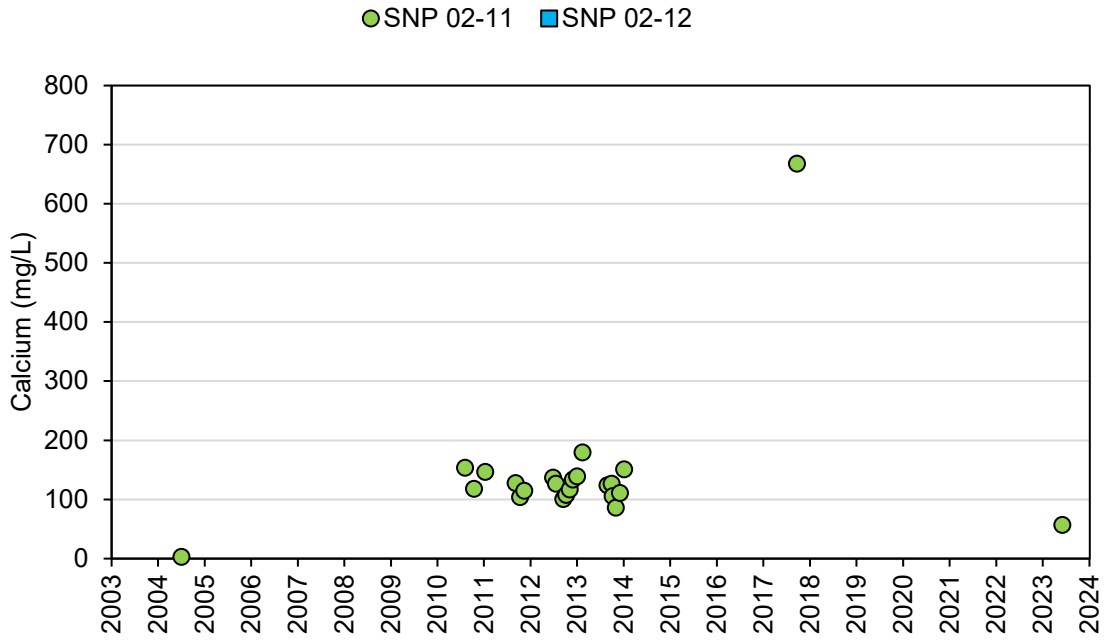

Figure 4: Chloride Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

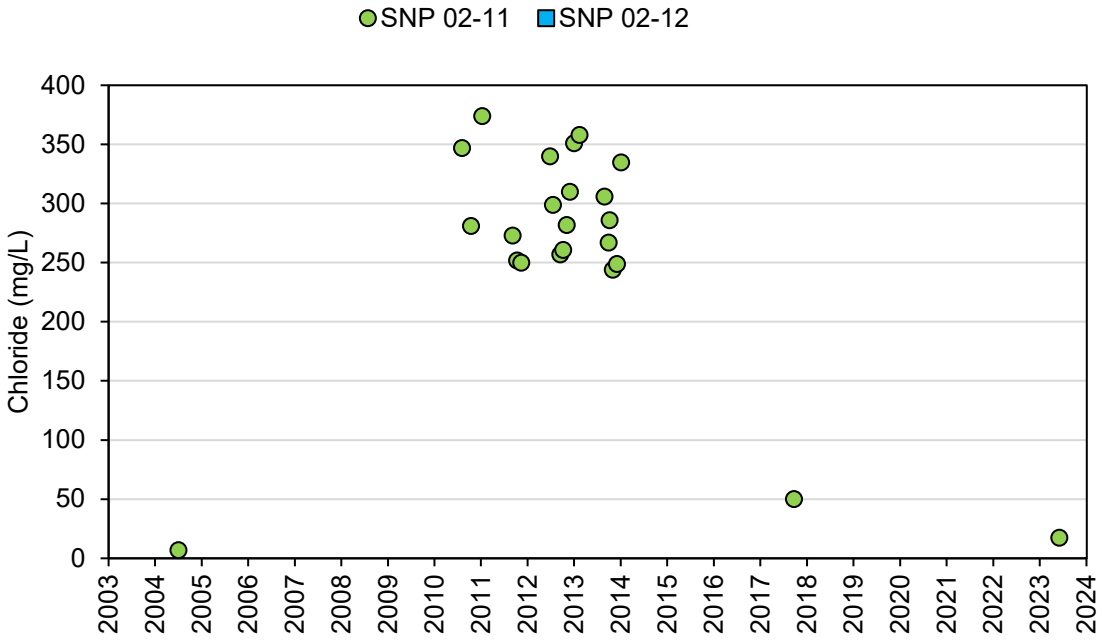

Figure 5: Fluoride Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

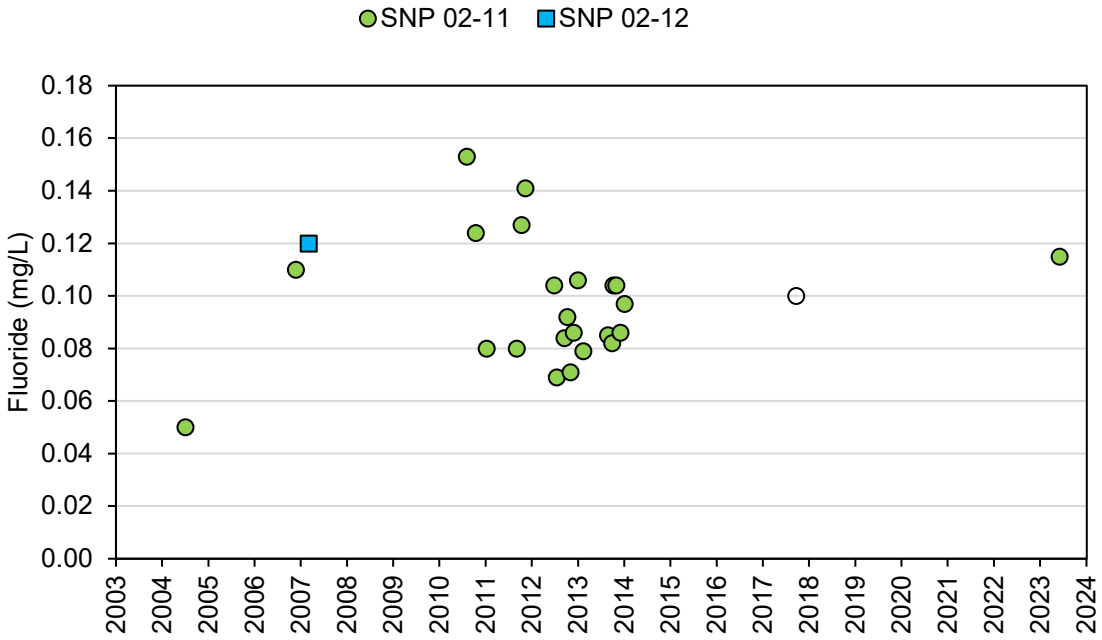

Figure 6: Magnesium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

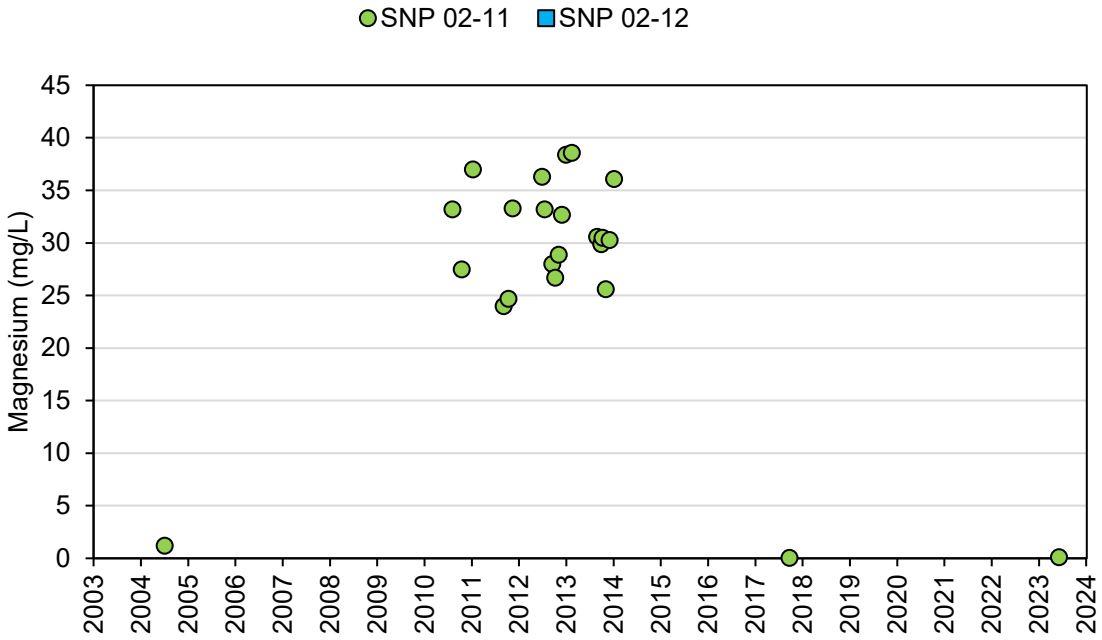

Figure 7: Potassium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

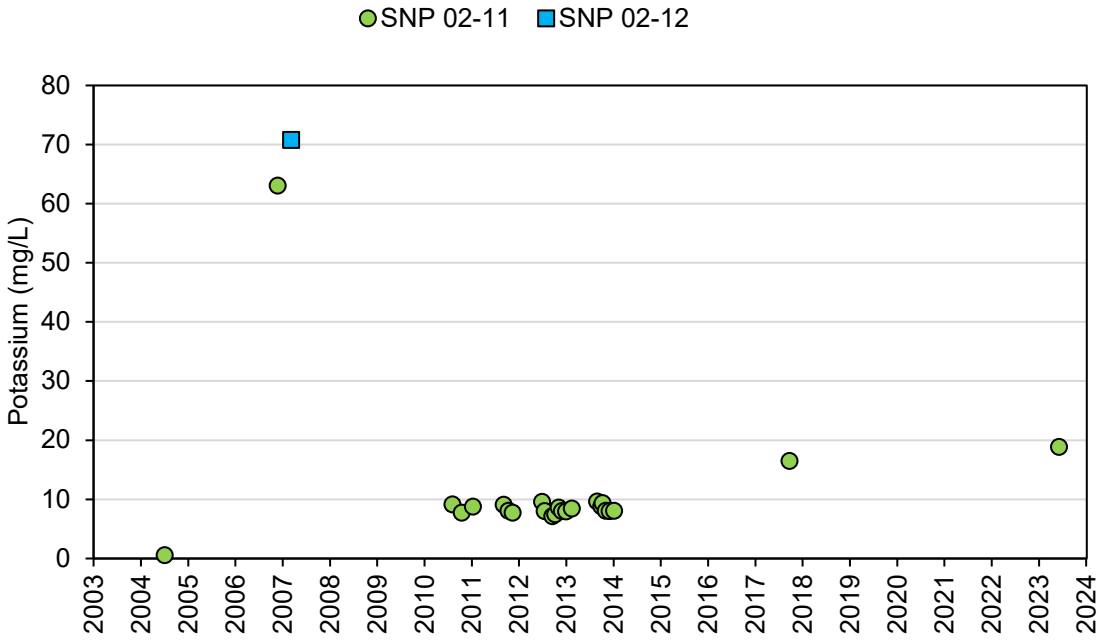

Figure 8: Sodium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

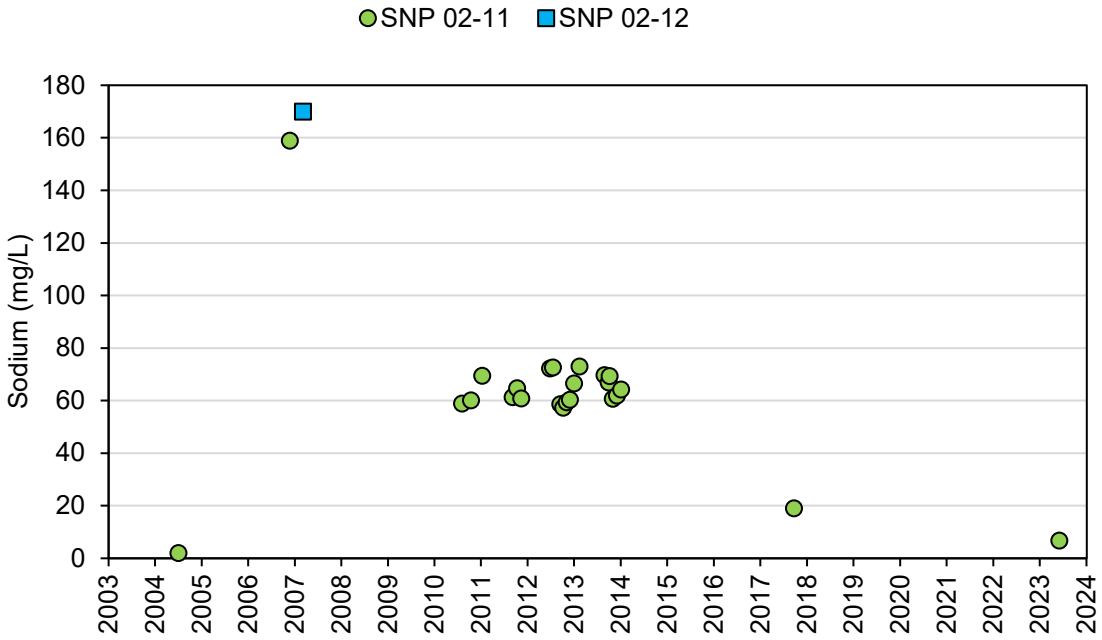

Figure 9: Sulphate Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

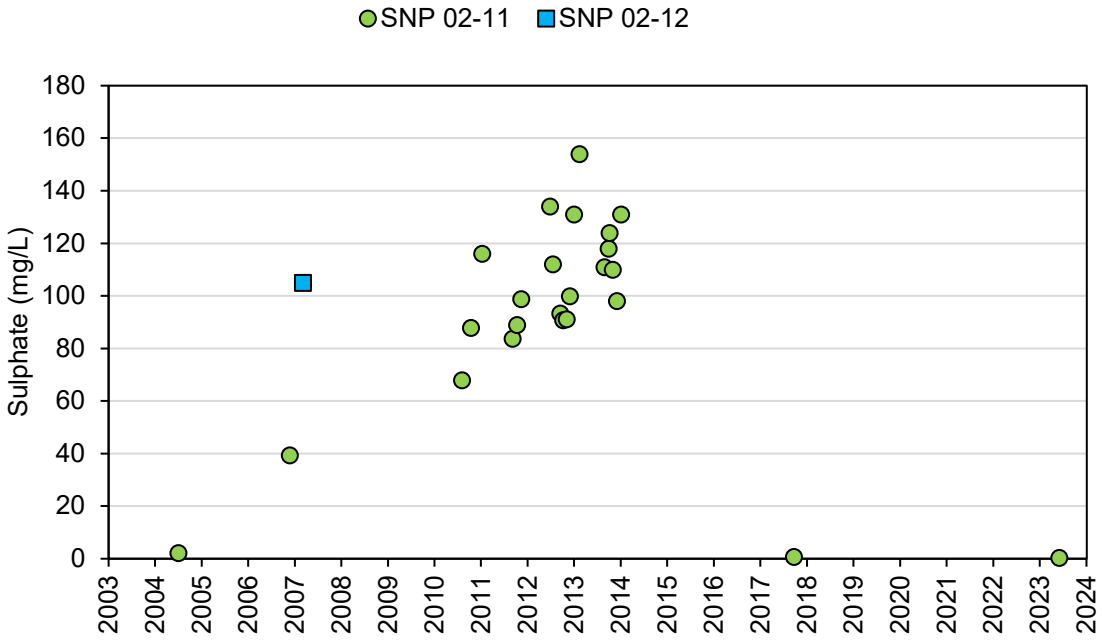

Figure 10: Nitrate Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

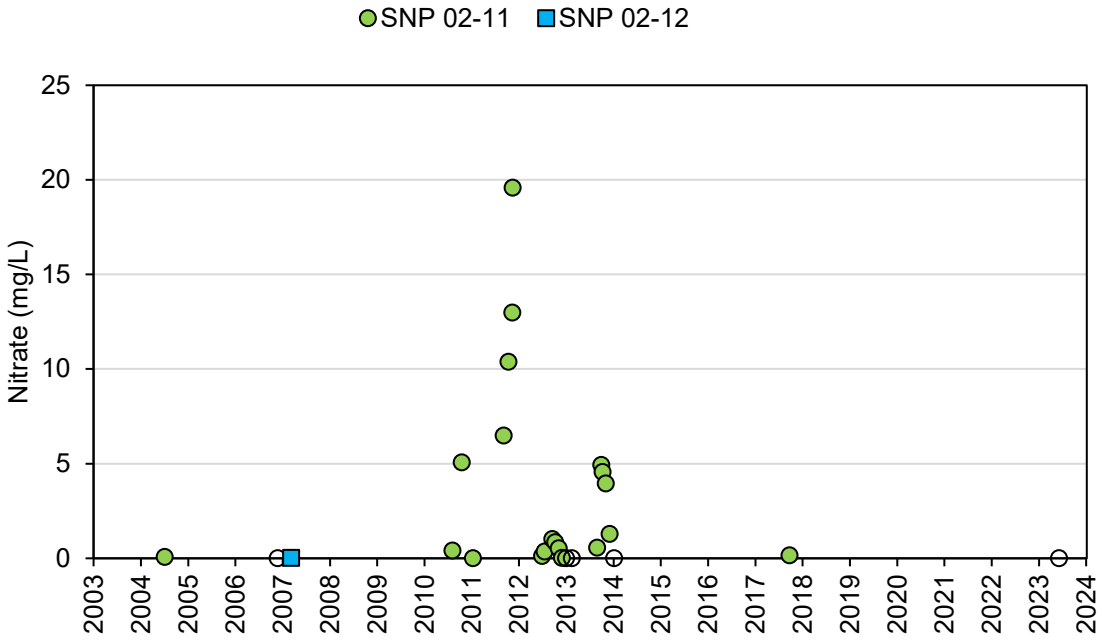

Figure 11: Nitrite Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

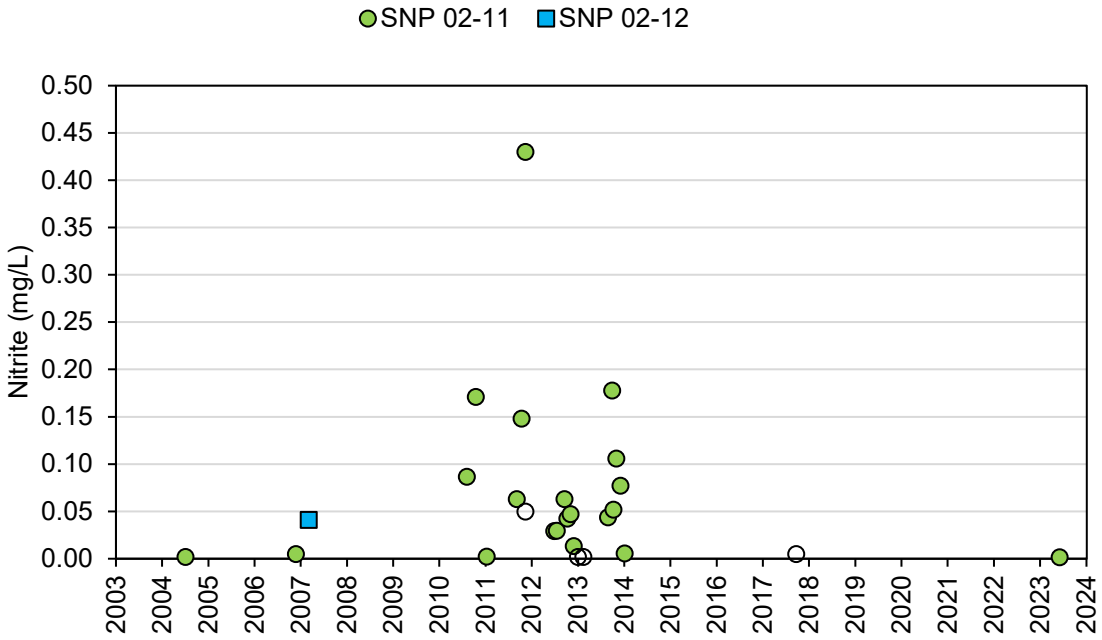

Figure 12: Total Ammonia Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

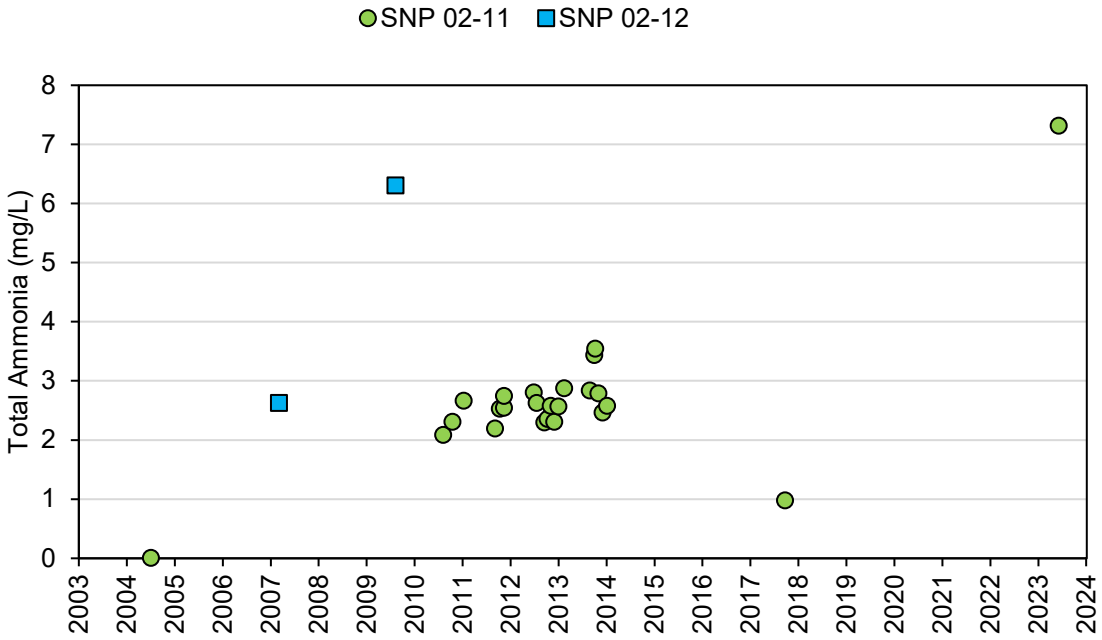

Figure 13: Total Phosphorus Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

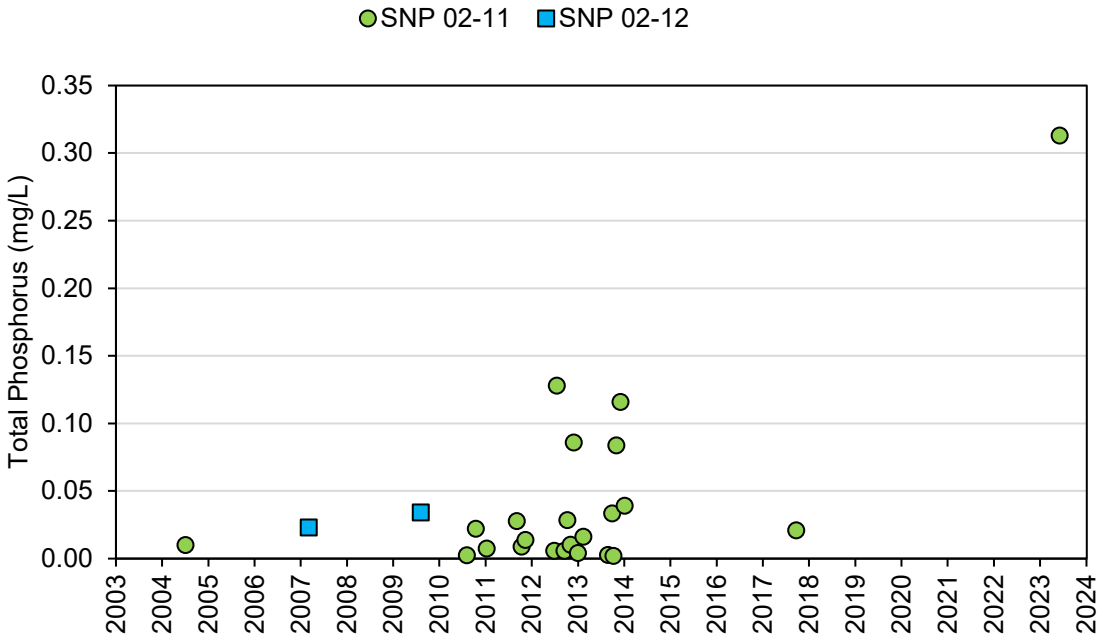

Figure 14: Total Aluminum Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

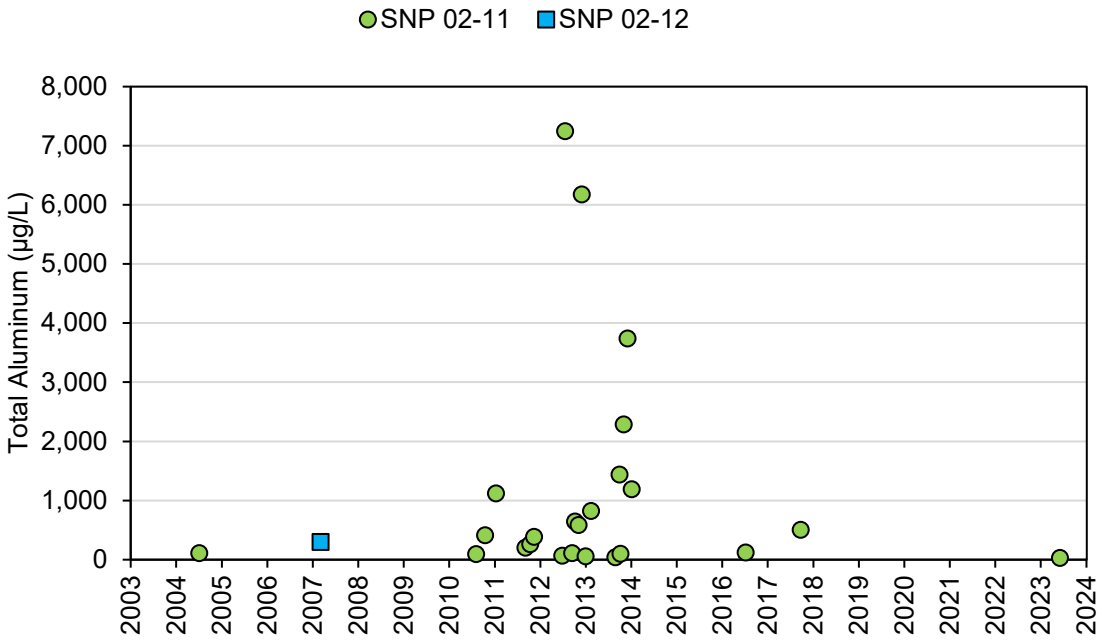

Figure 15: Total Antimony Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

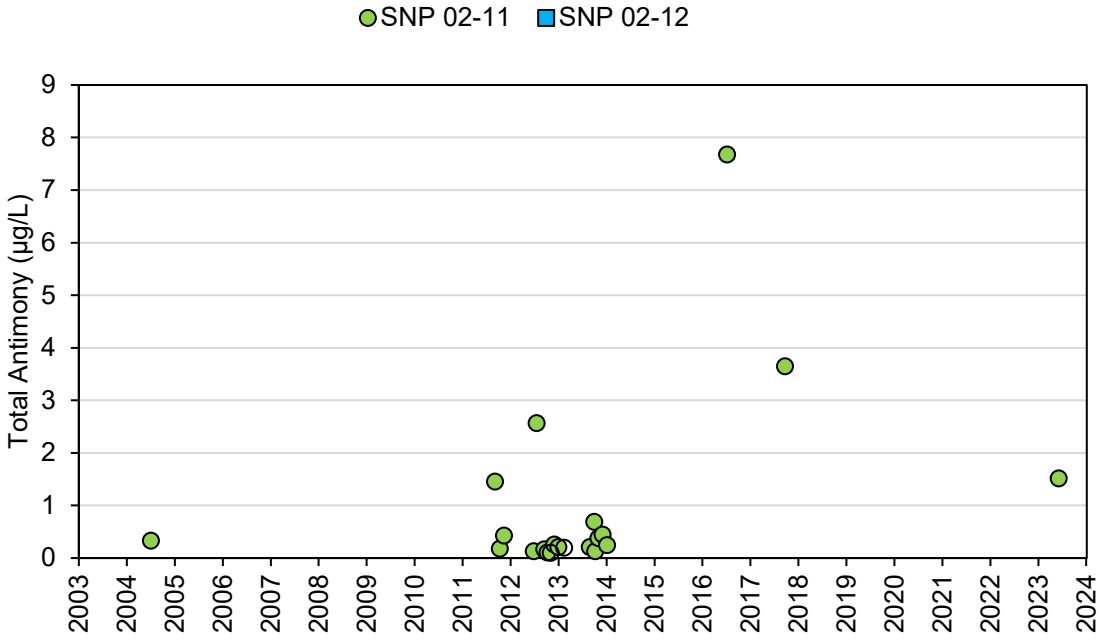

Figure 16: Total Arsenic Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

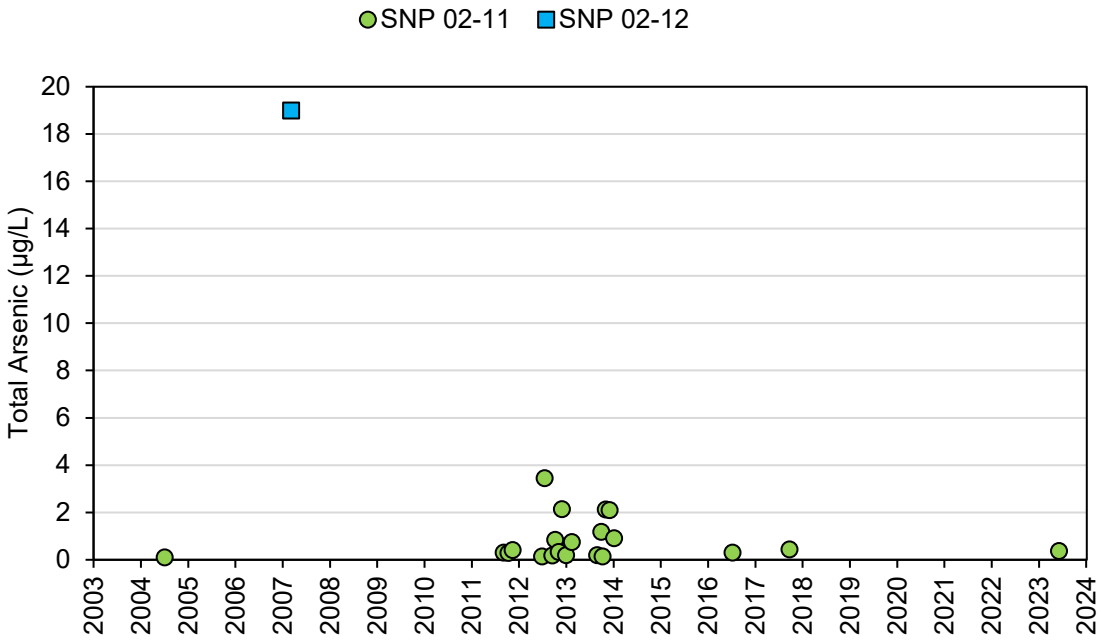

Figure 17: Total Barium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

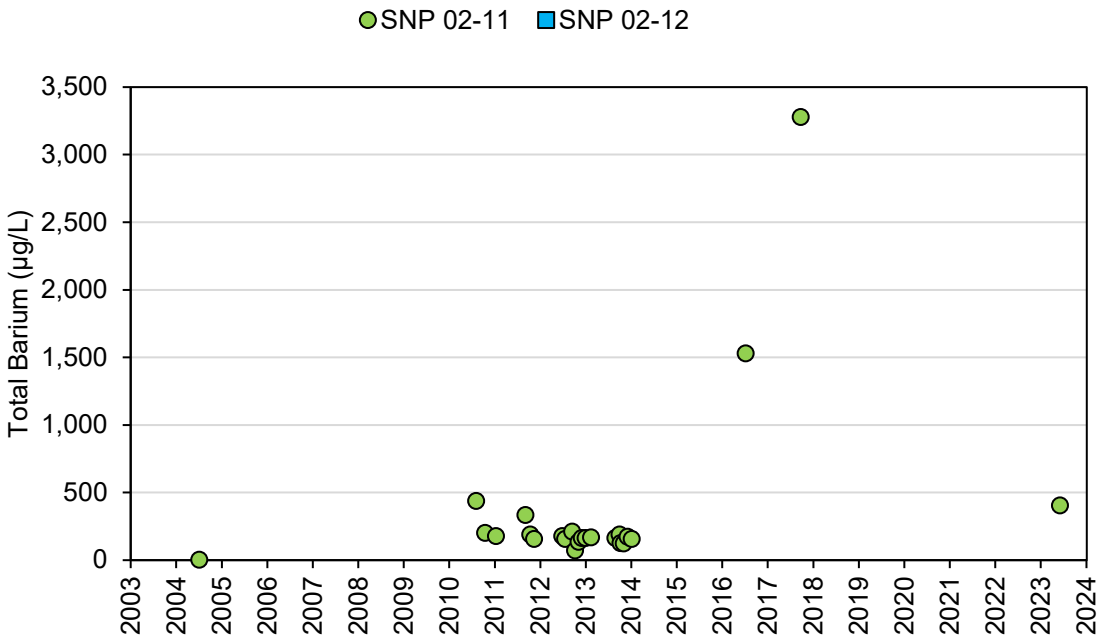

Figure 18: Total Beryllium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

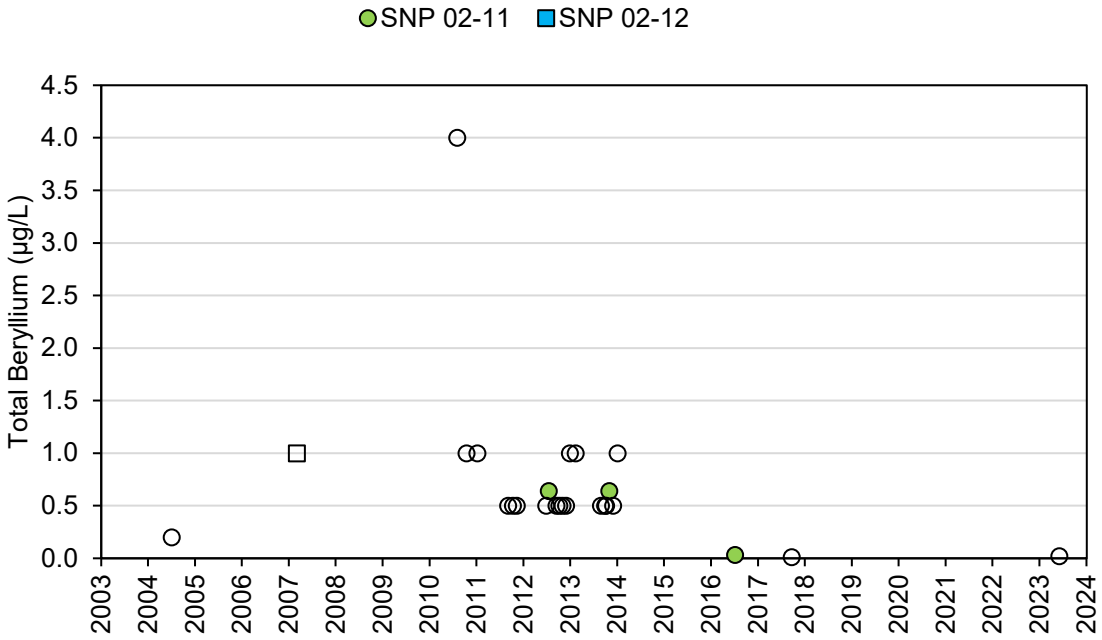

Figure 19: Total Bismuth Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

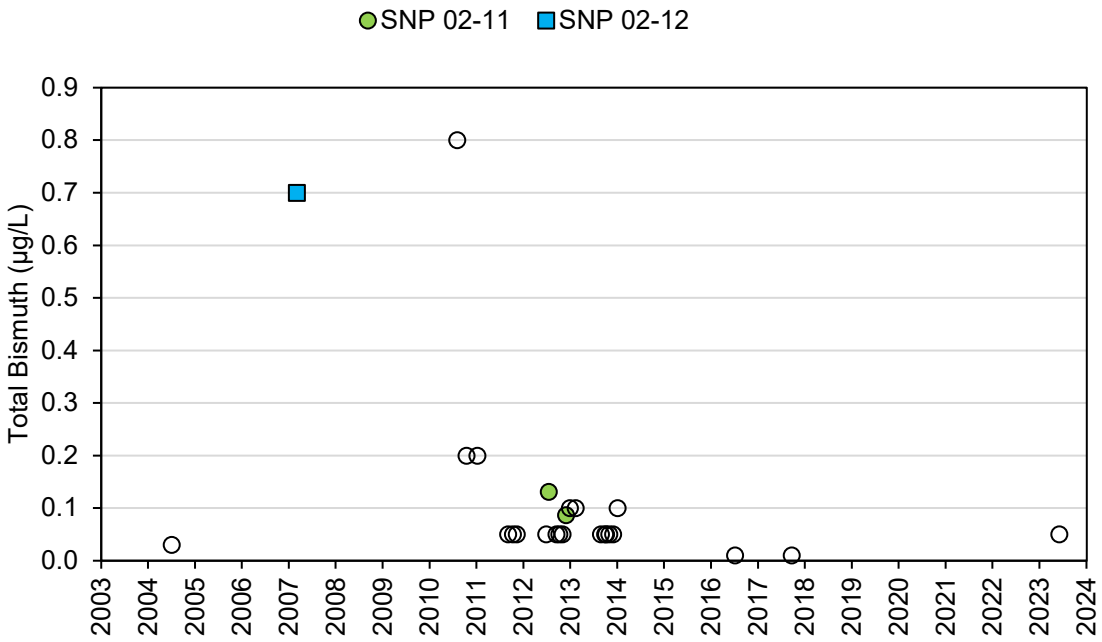

Figure 20: Total Boron Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

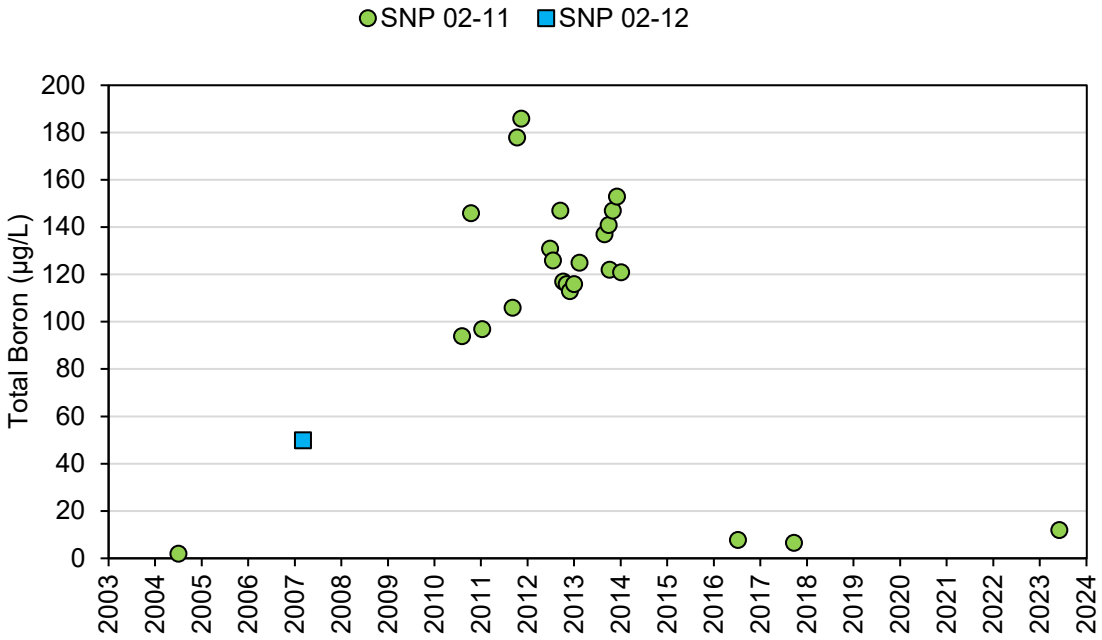

Figure 21: Total Cadmium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

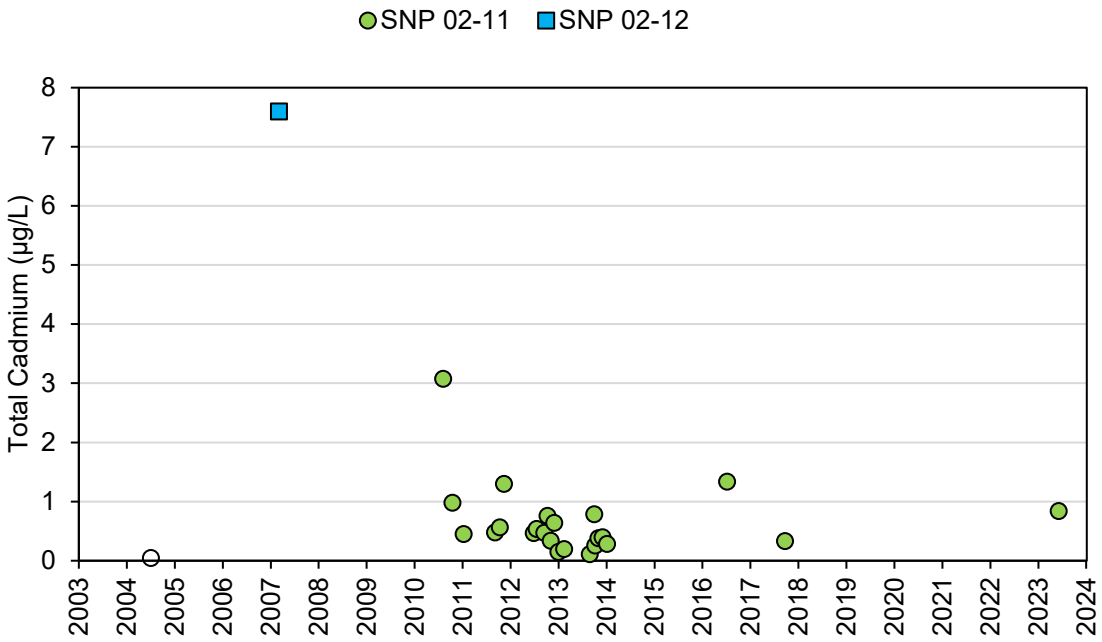

Figure 22: Total Cesium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

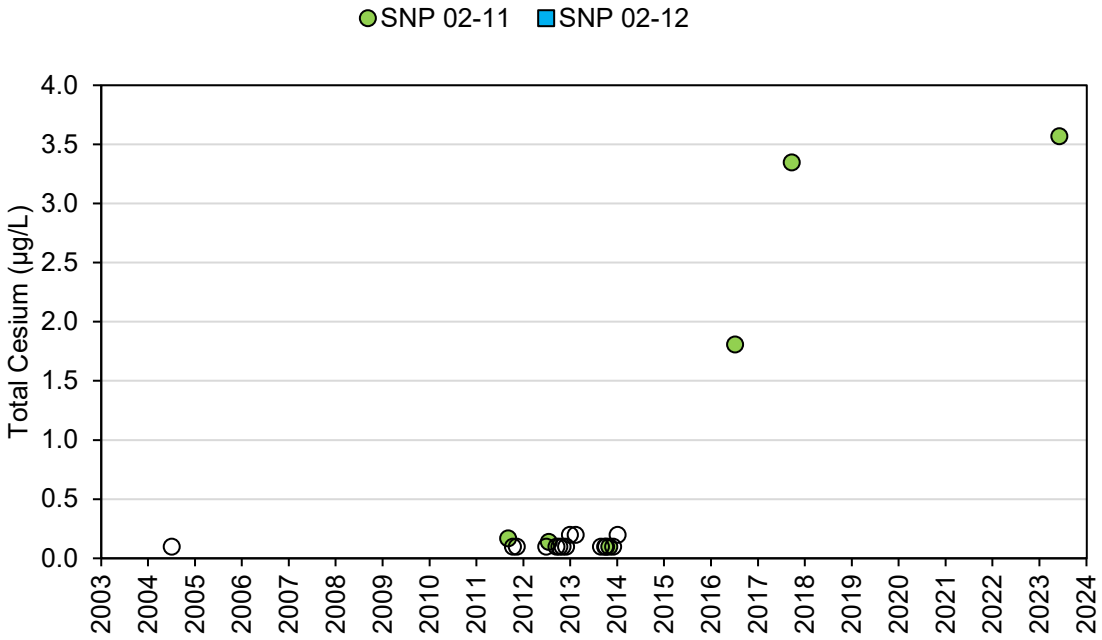

Figure 23: Total Chromium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

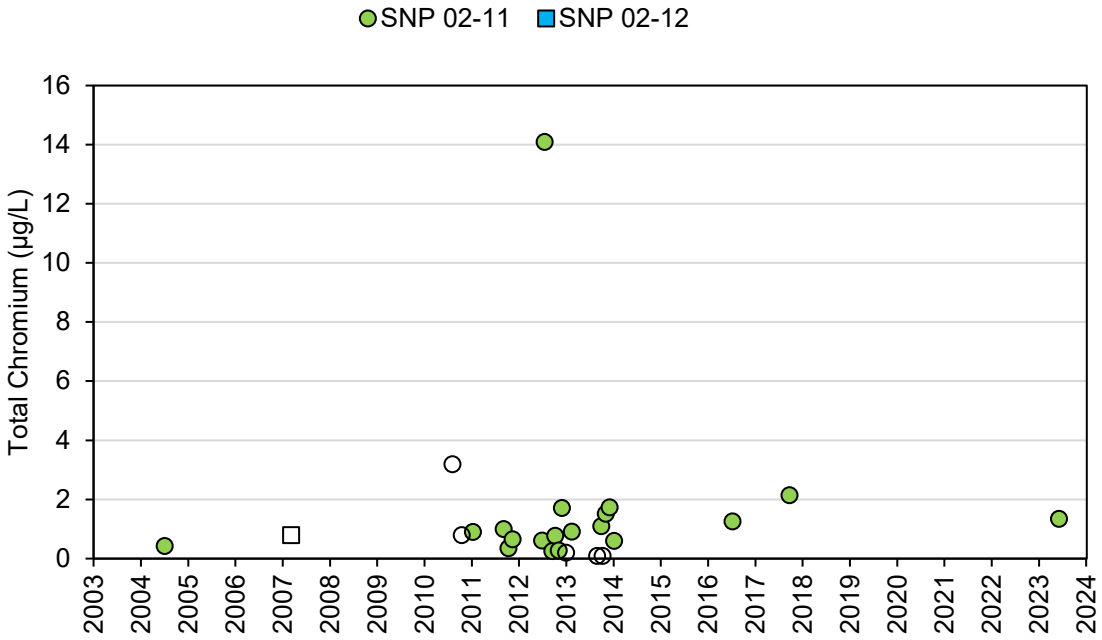

Figure 24: Total Cobalt Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

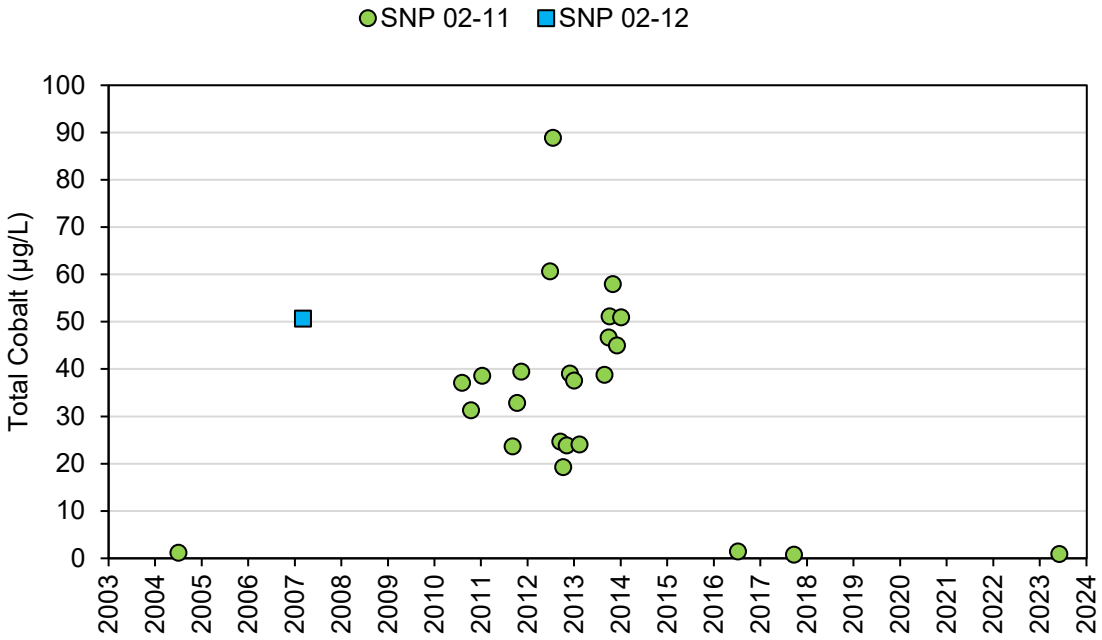

Figure 25: Total Copper Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

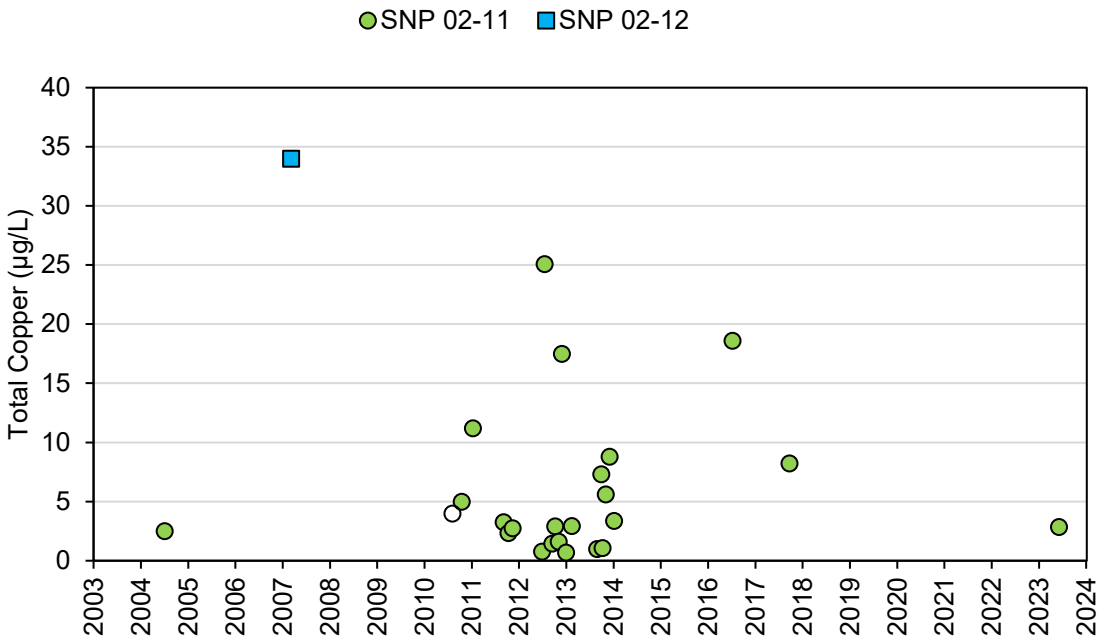

Figure 26: Total Iron Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

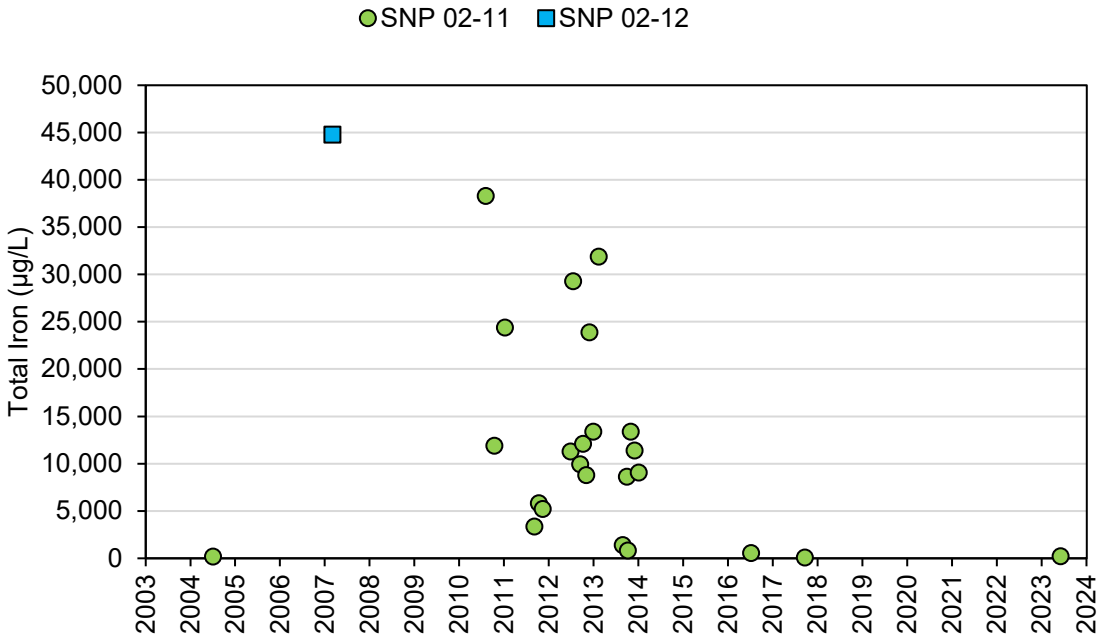

Figure 27: Total Lead Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

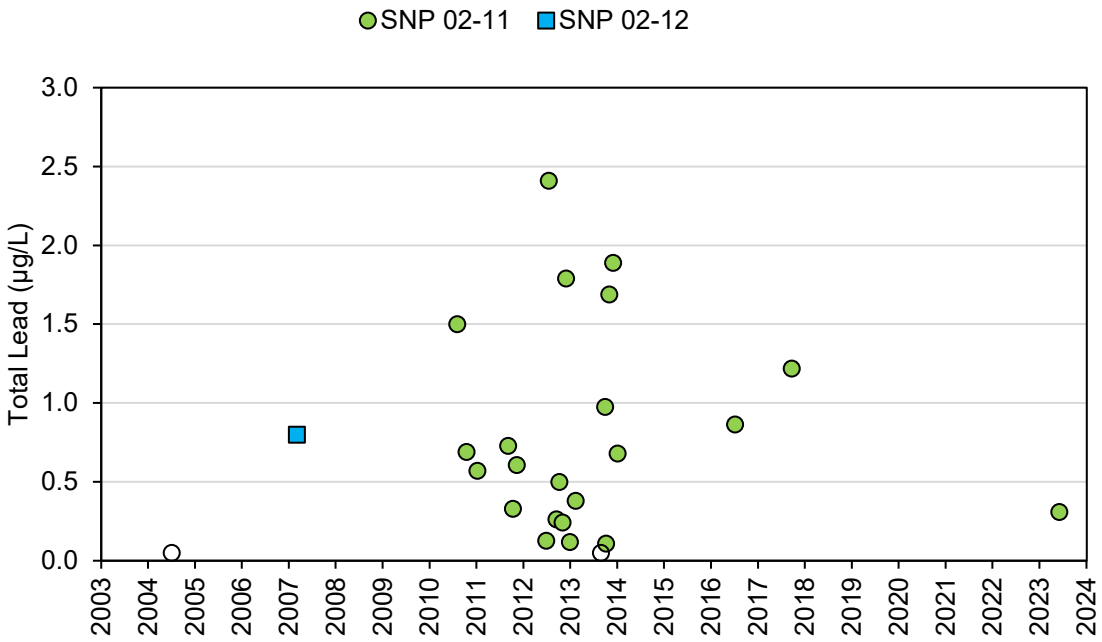

Figure 28: Total Lithium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

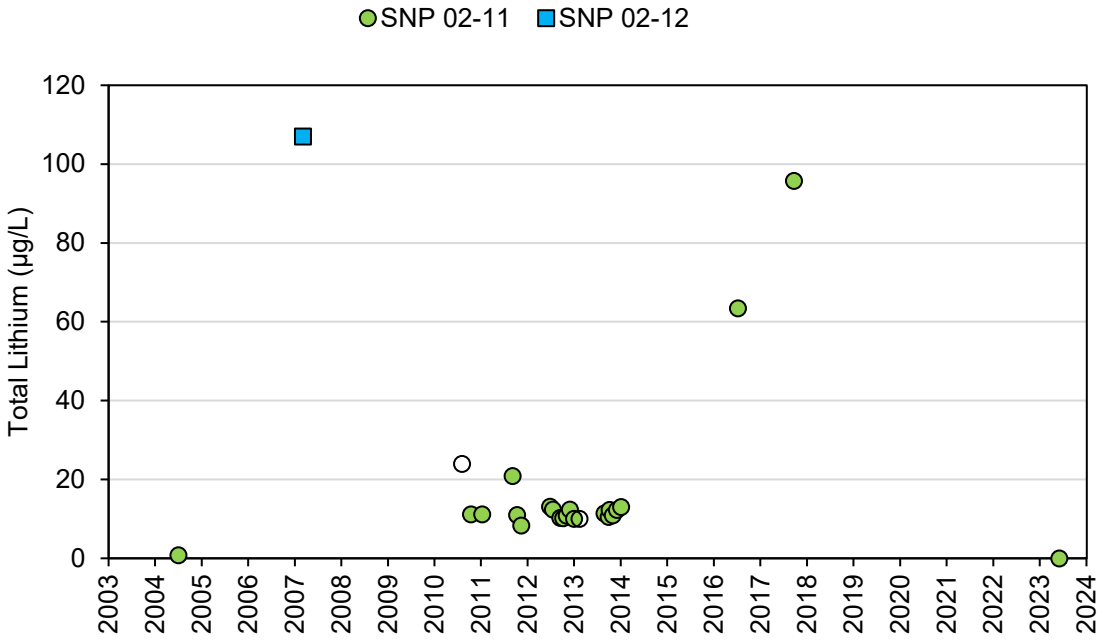

Figure 29: Total Manganese Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

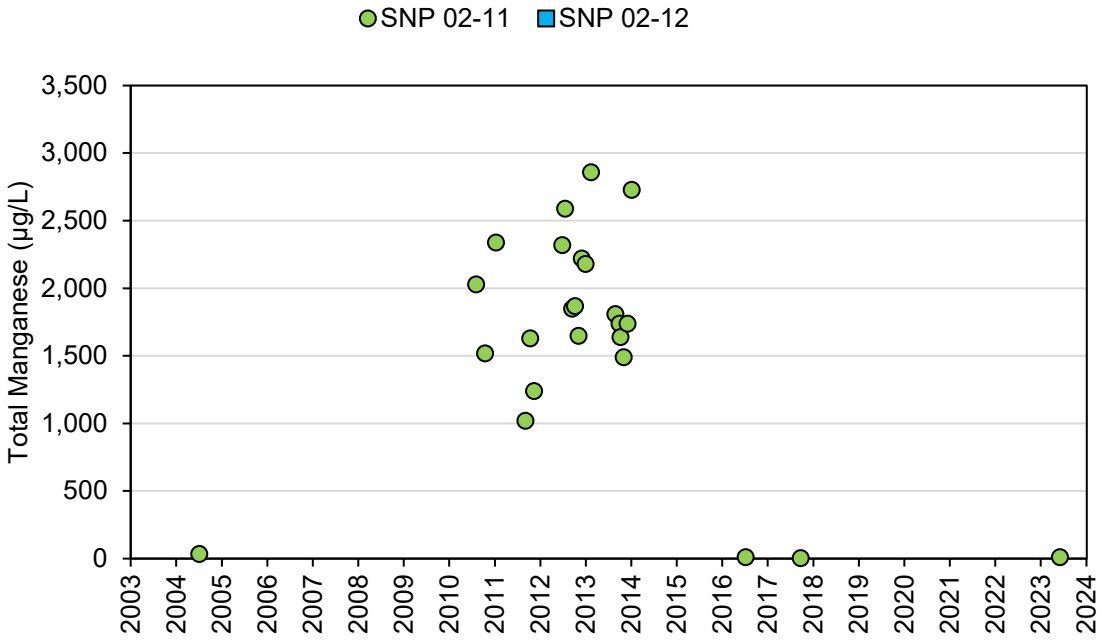

Figure 30: Total Mercury Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

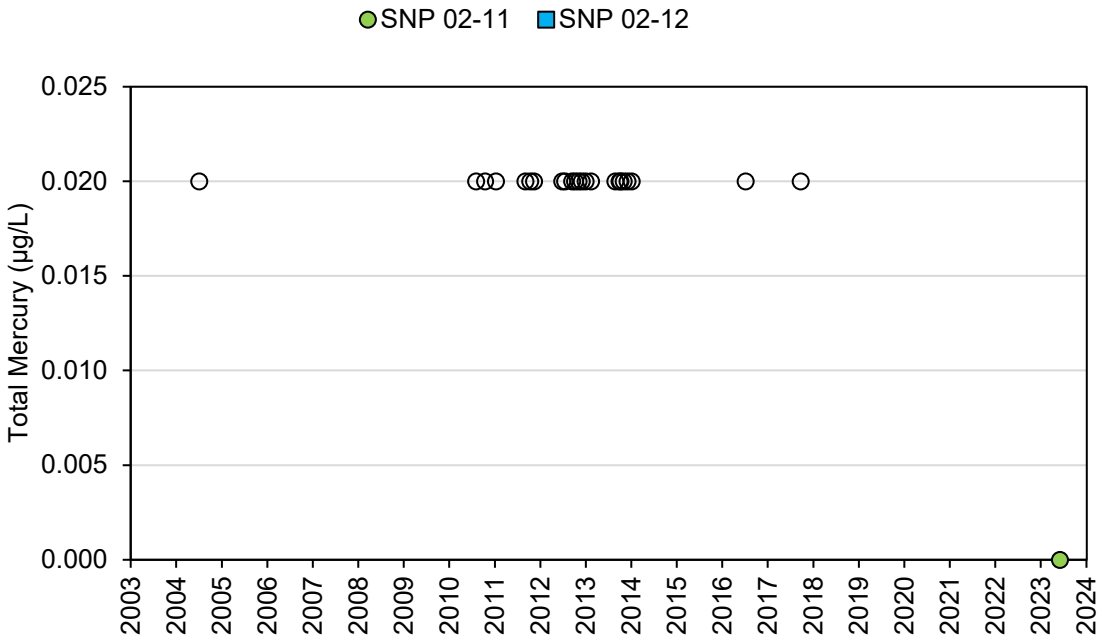

Figure 31: Total Molybdenum Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

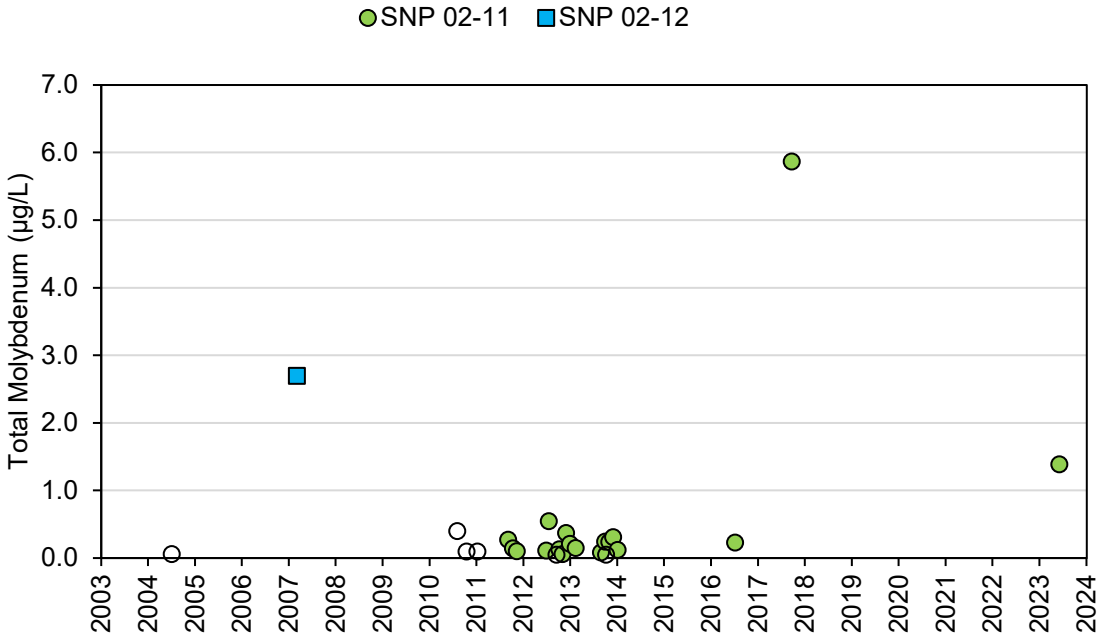

Figure 32: Total Nickel Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

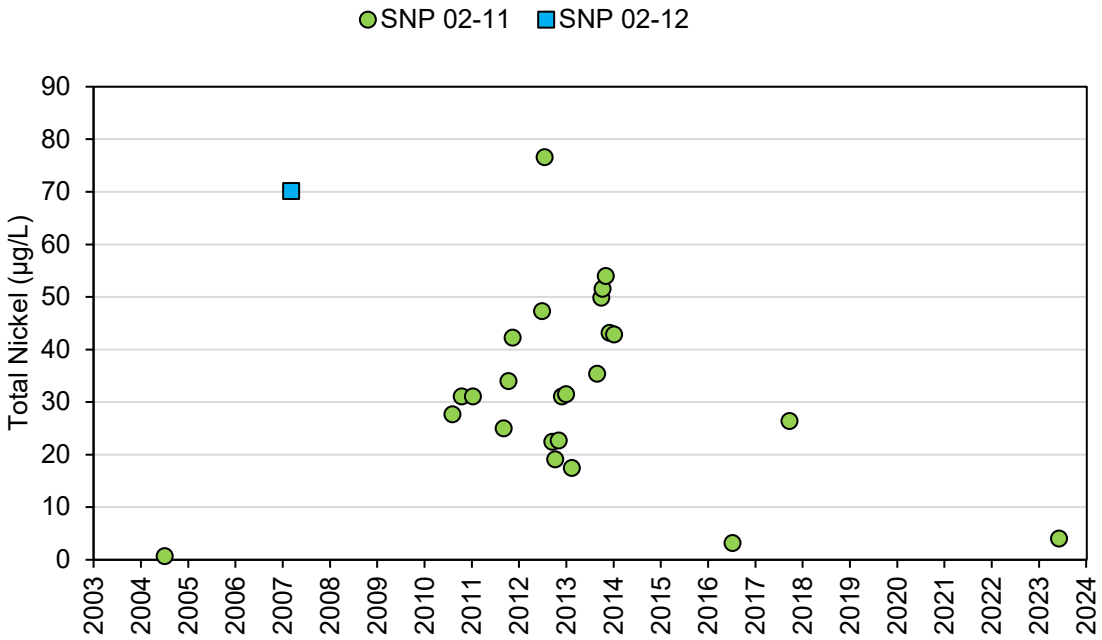

Figure 33: Total Rubidium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

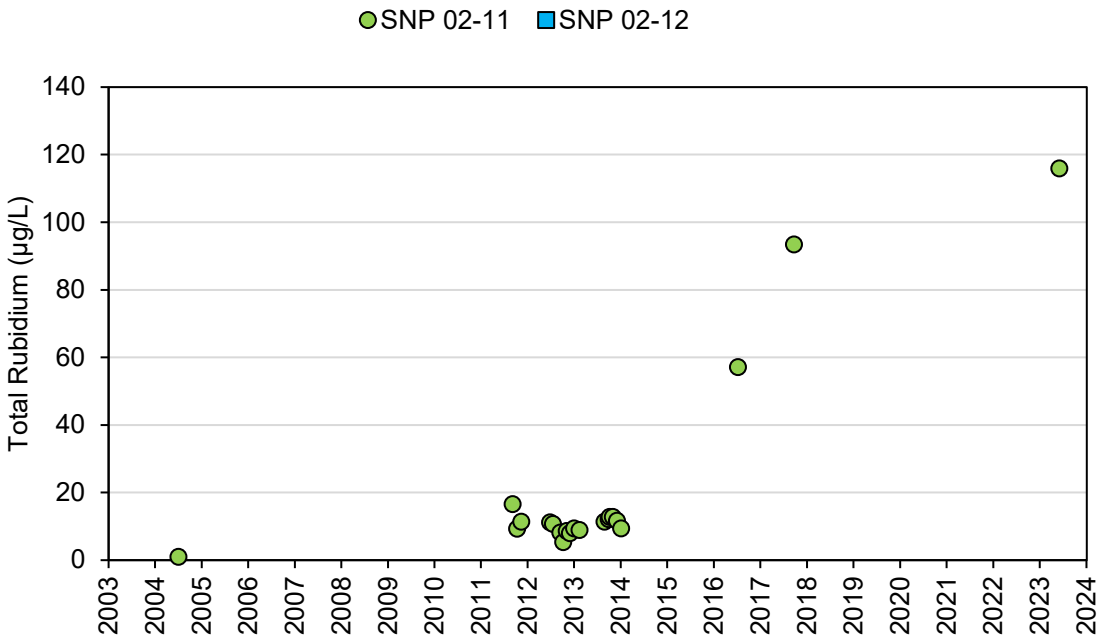

Figure 34: Total Selenium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

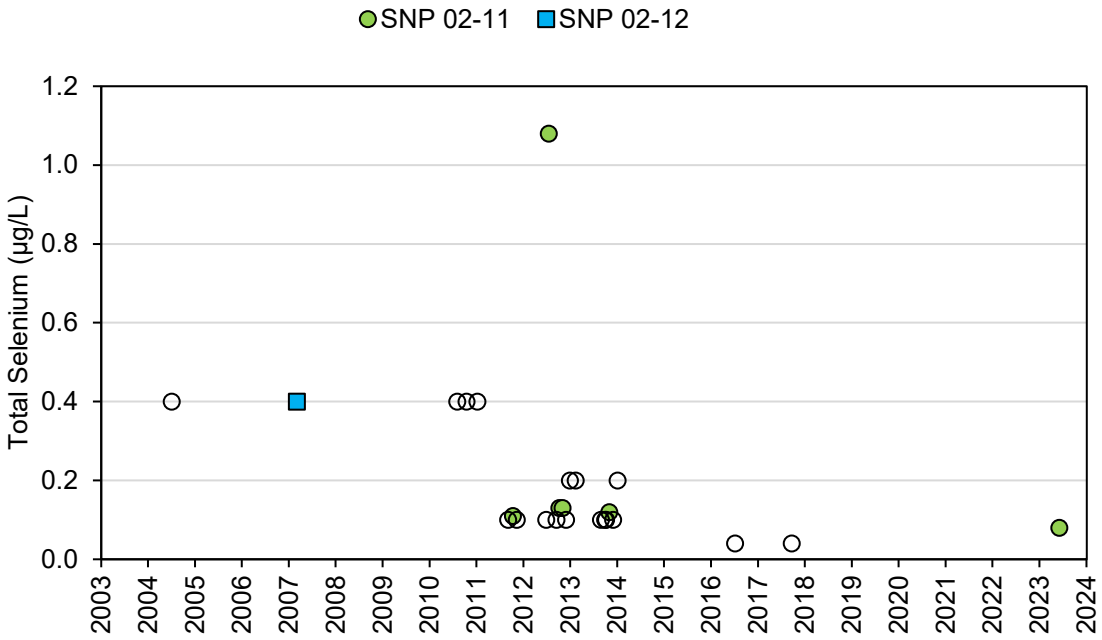

Figure 35: Total Silver Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

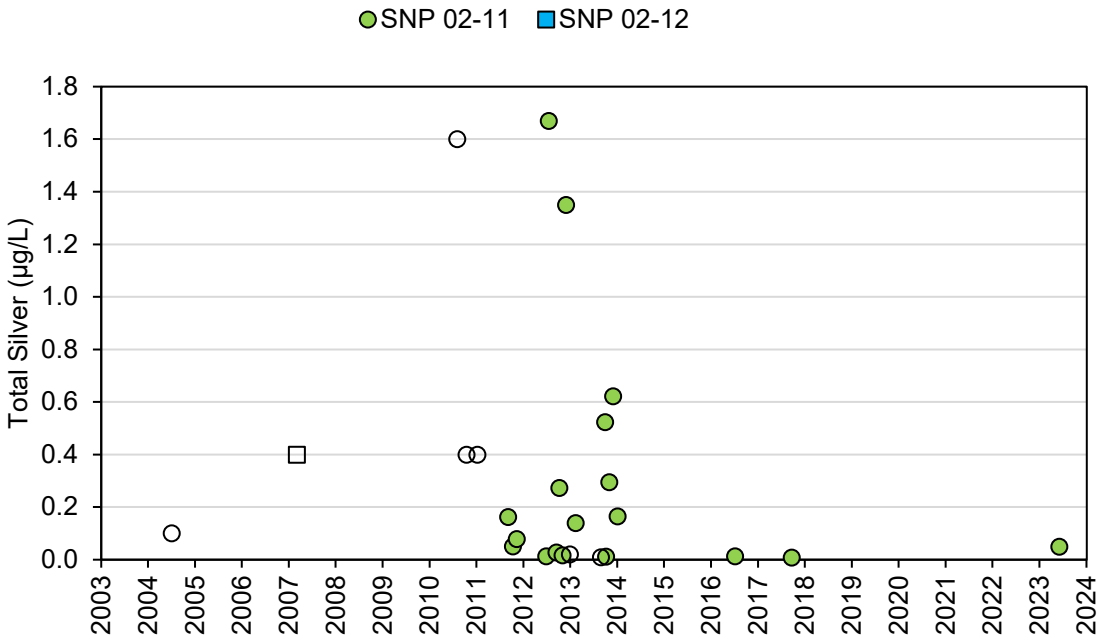

Figure 36: Total Strontium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

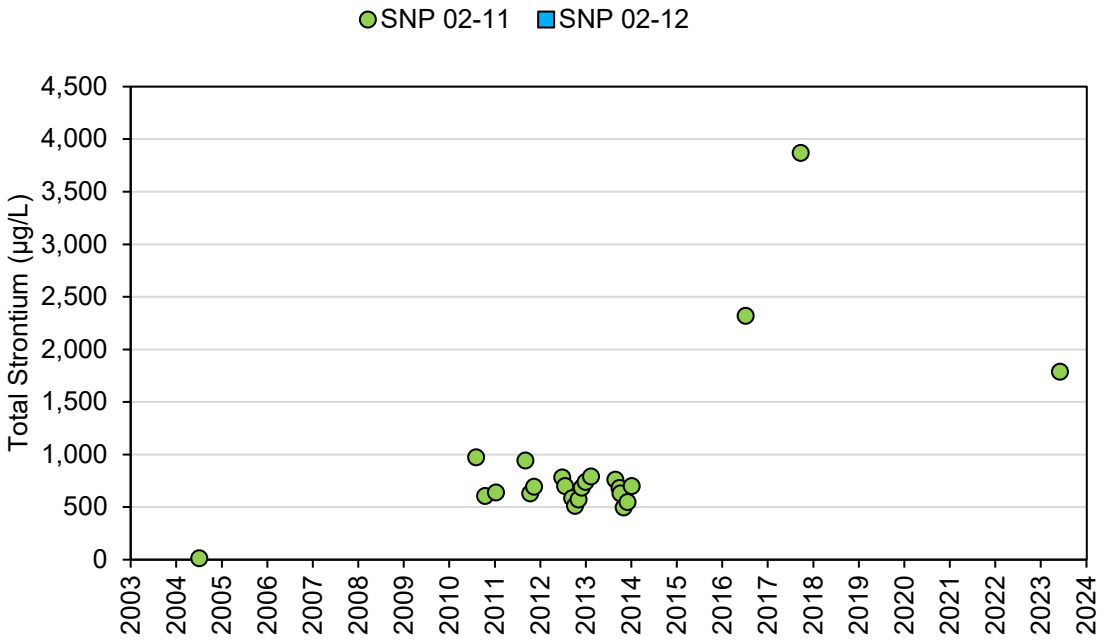

Figure 37: Total Thallium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

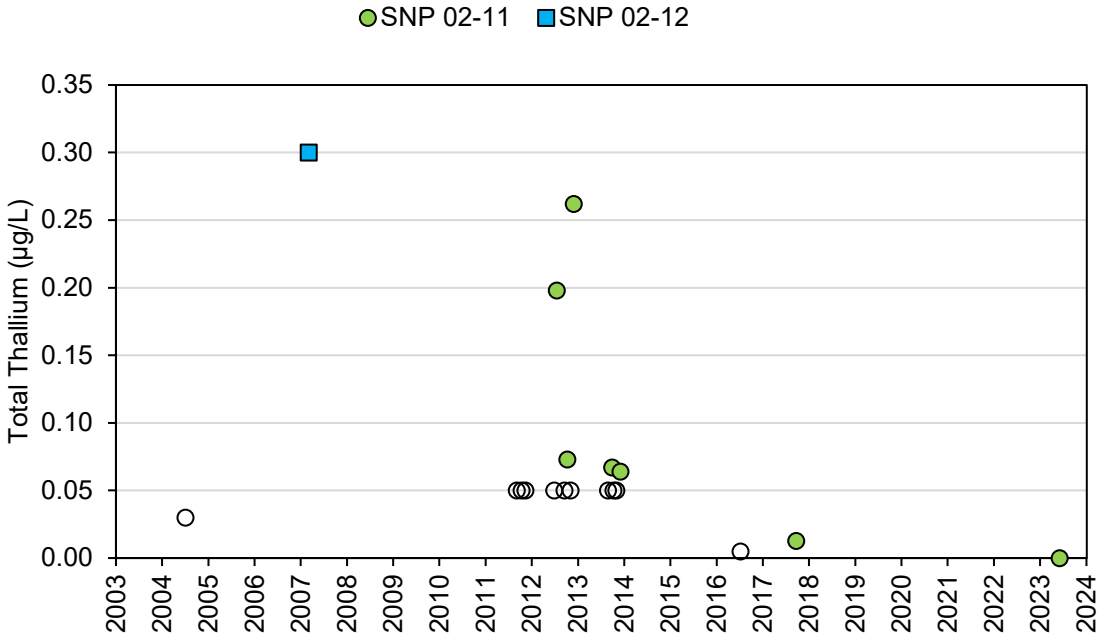

Figure 38: Total Titanium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

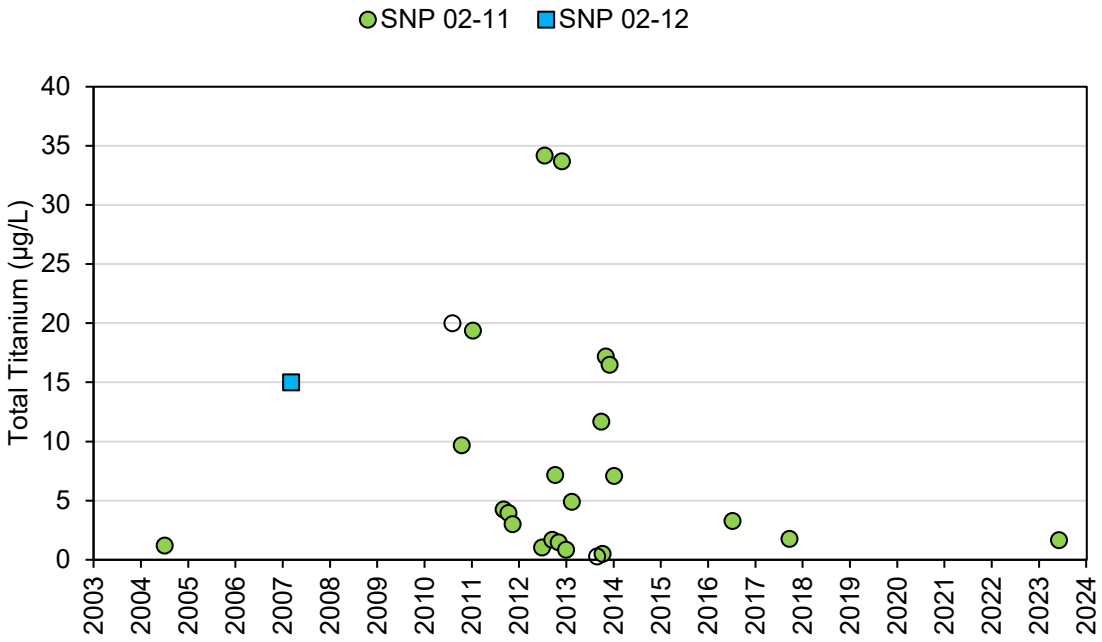

Figure 39: Total Uranium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

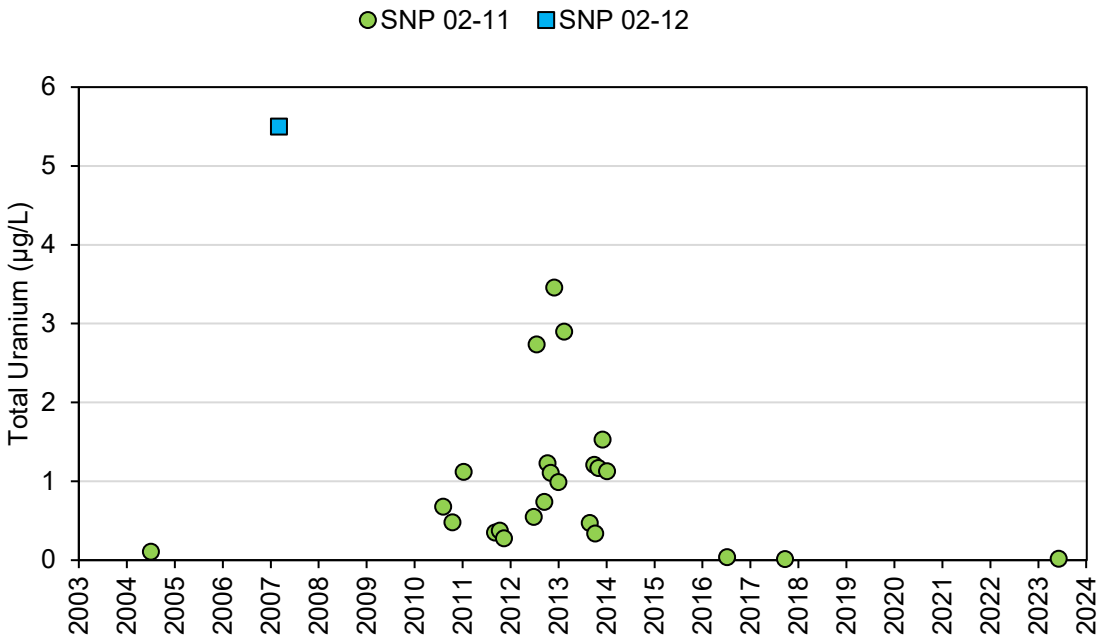

Figure 40: Total Vanadium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

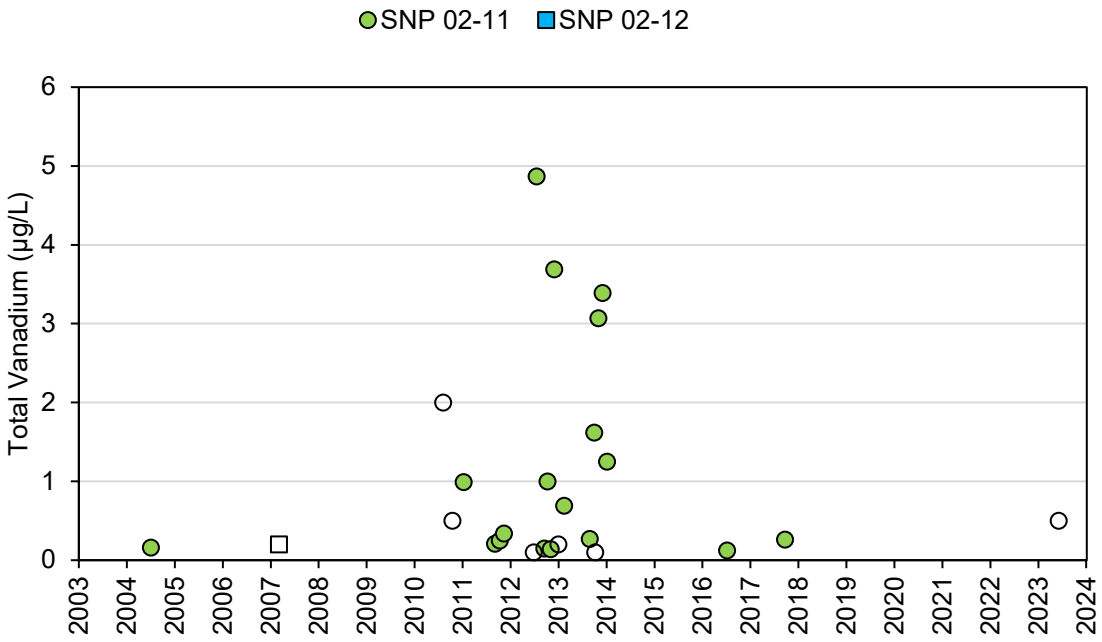

Figure 41: Total Zinc Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

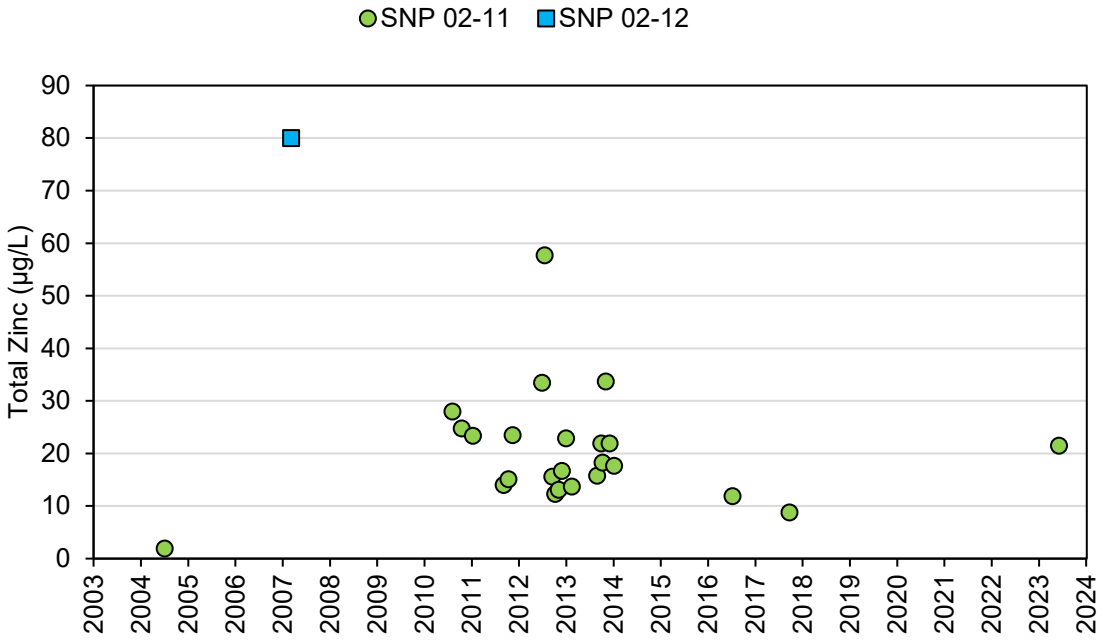

Figure 42: Dissolved Aluminum Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

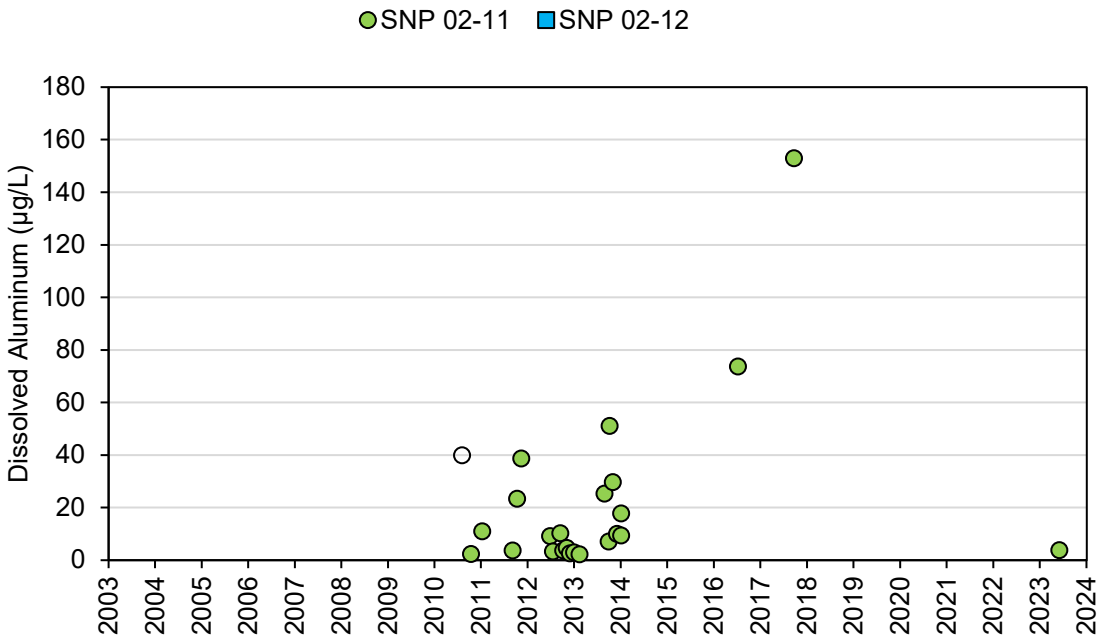

Figure 43: Dissolved Antimony Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

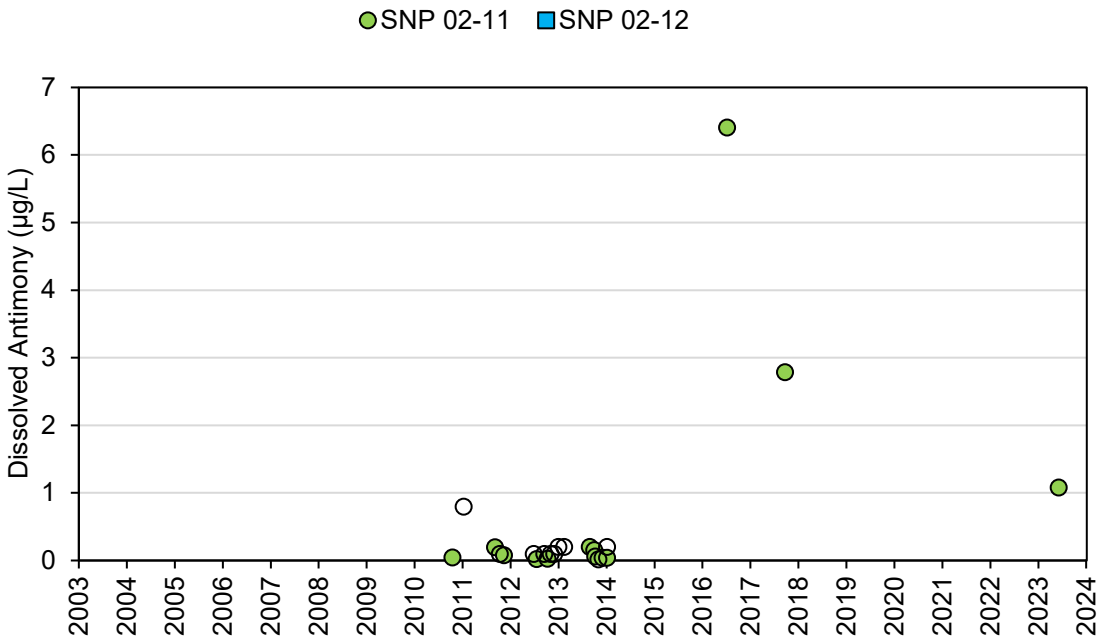

Figure 44: Dissolved Arsenic Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

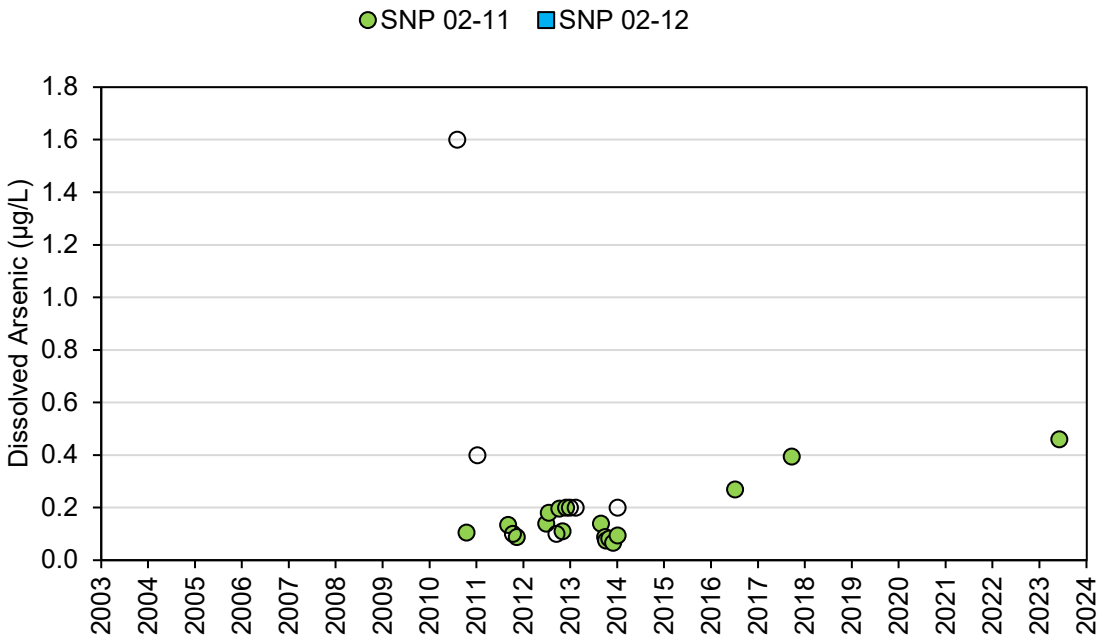

Figure 45: Dissolved Barium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

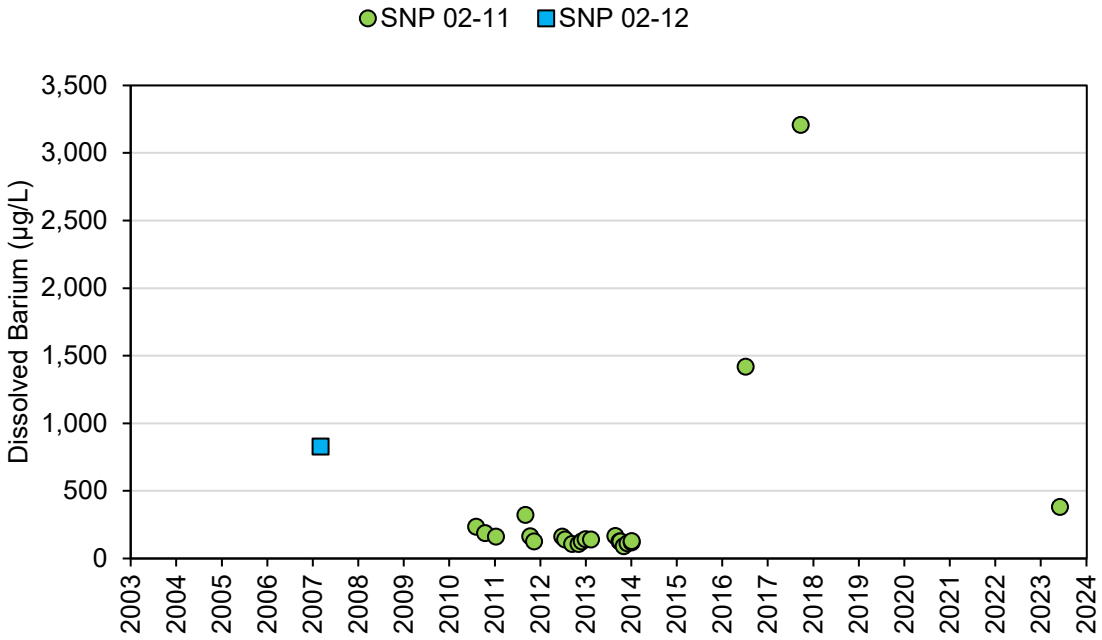

Figure 46: Dissolved Beryllium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

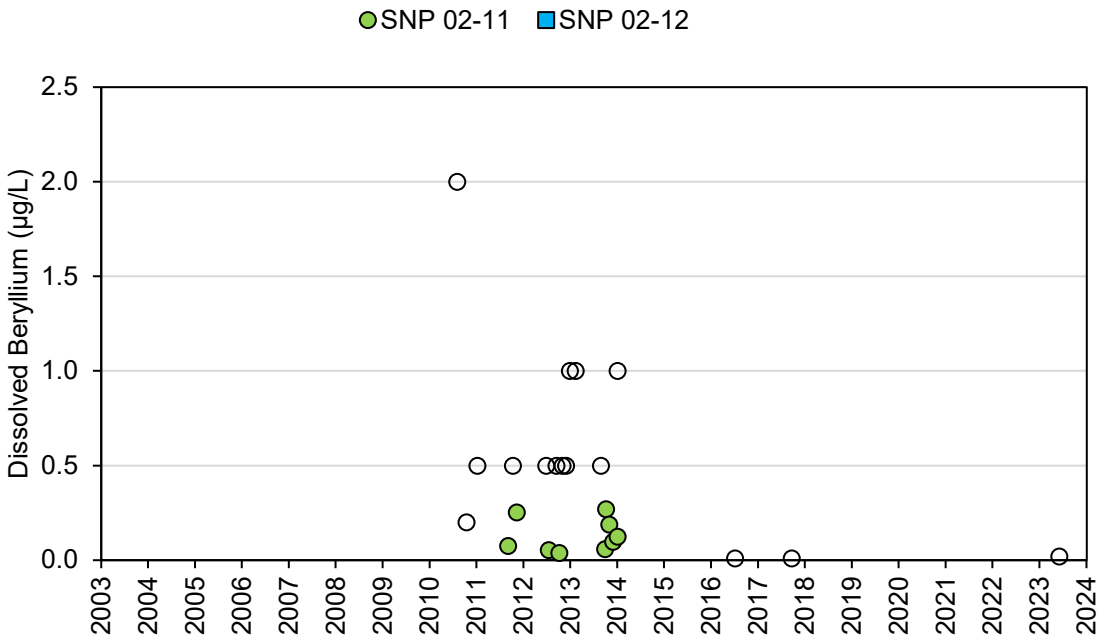

Figure 47: Dissolved Bismuth Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

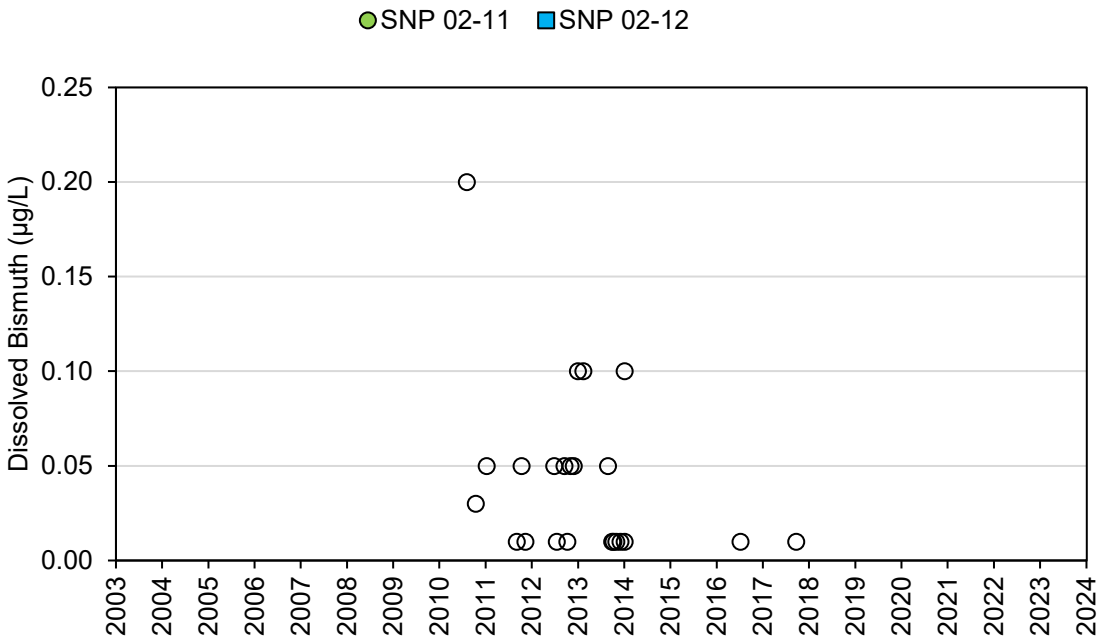

Figure 48: Dissolved Boron Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

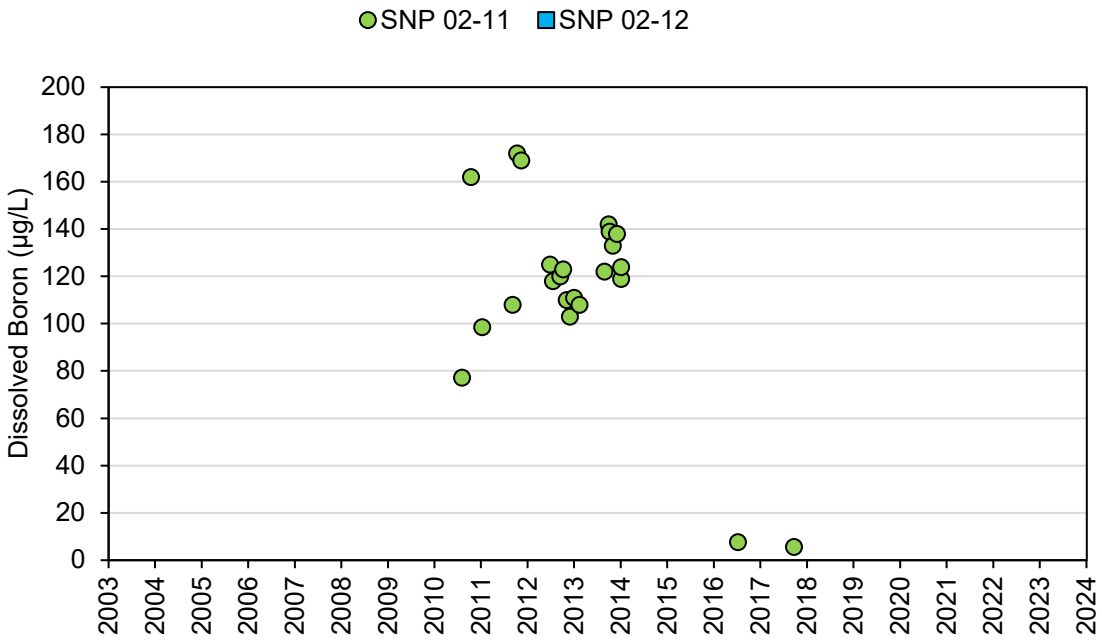

Figure 49: Dissolved Cadmium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

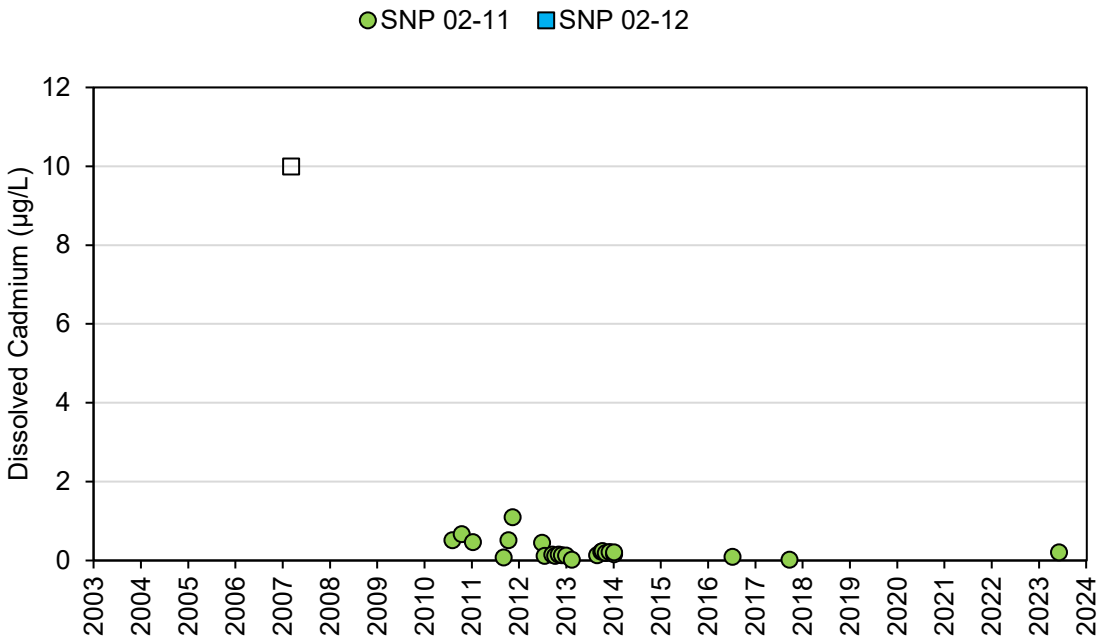

Figure 50: Dissolved Cesium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

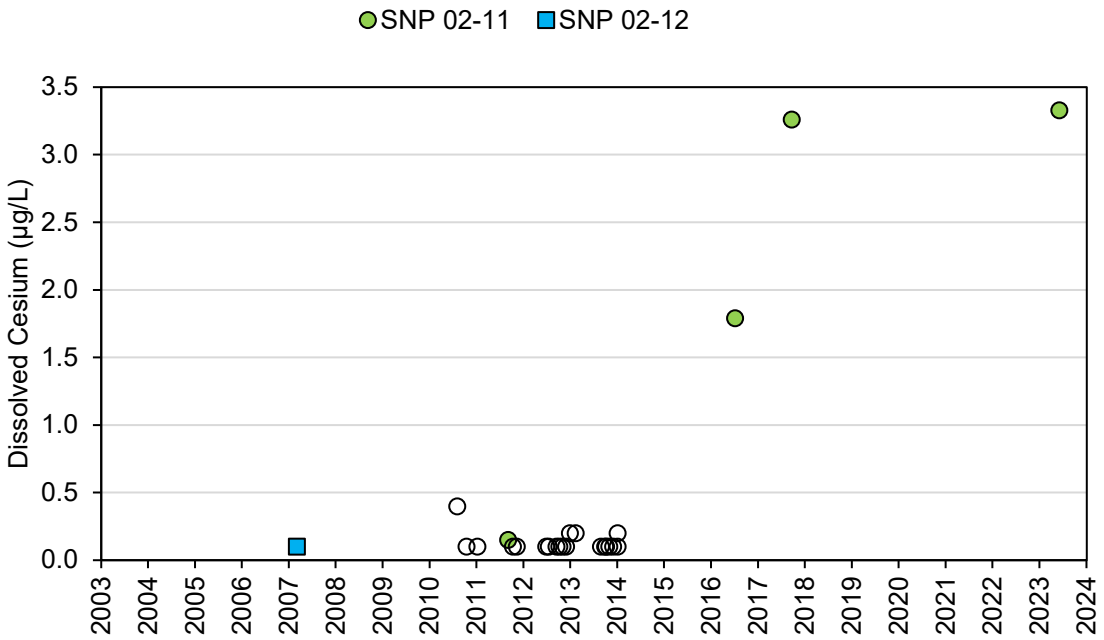

Figure 51: Dissolved Chromium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

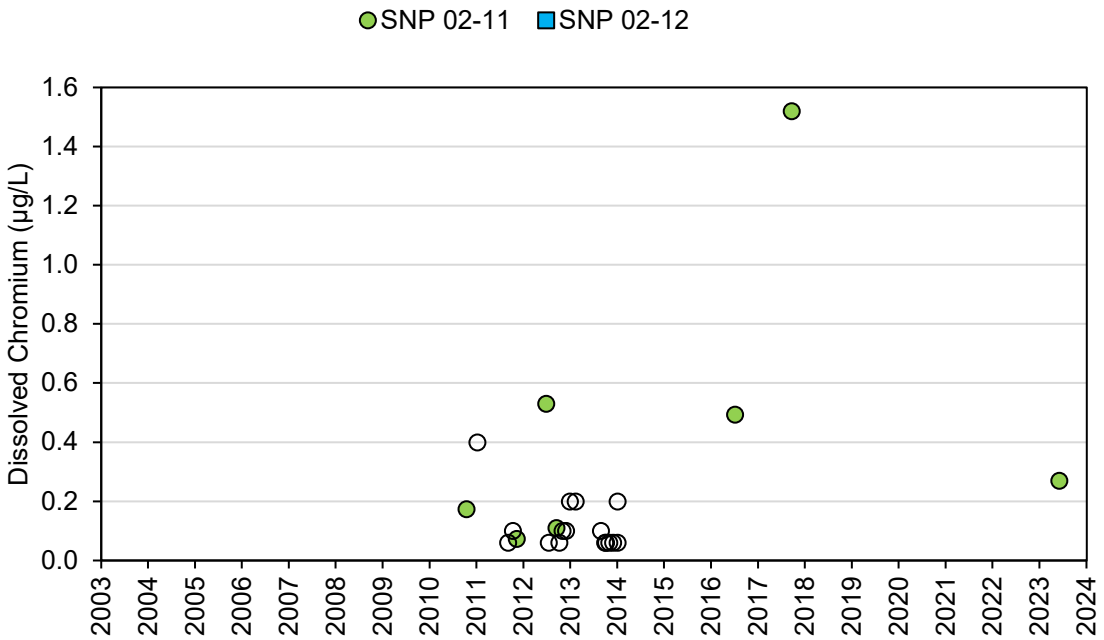

Figure 52: Dissolved Cobalt Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

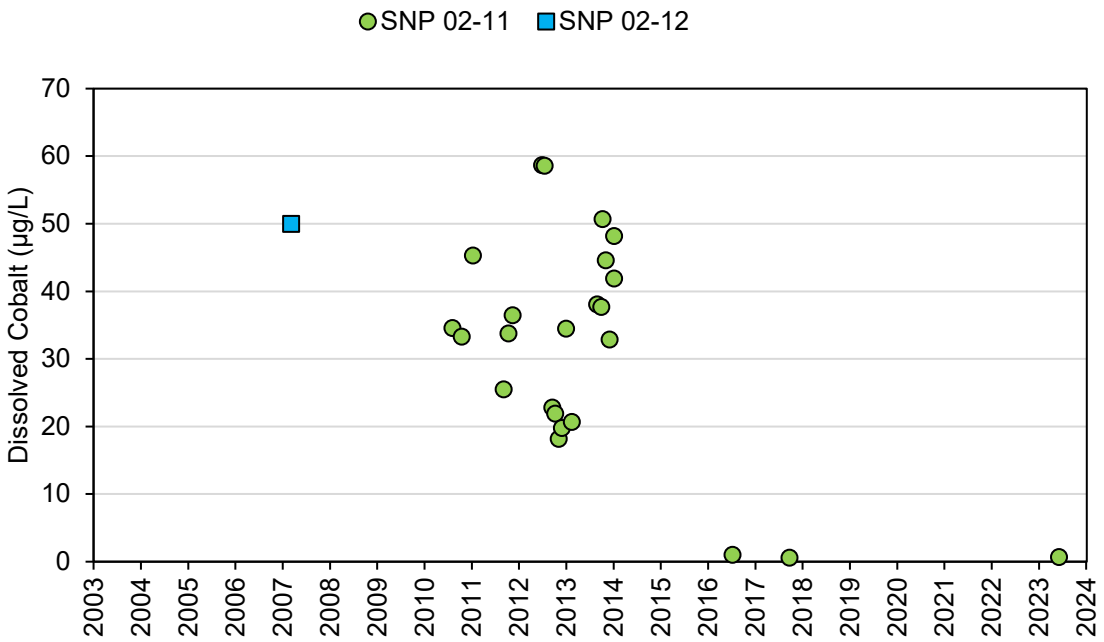

Figure 53: Dissolved Copper Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

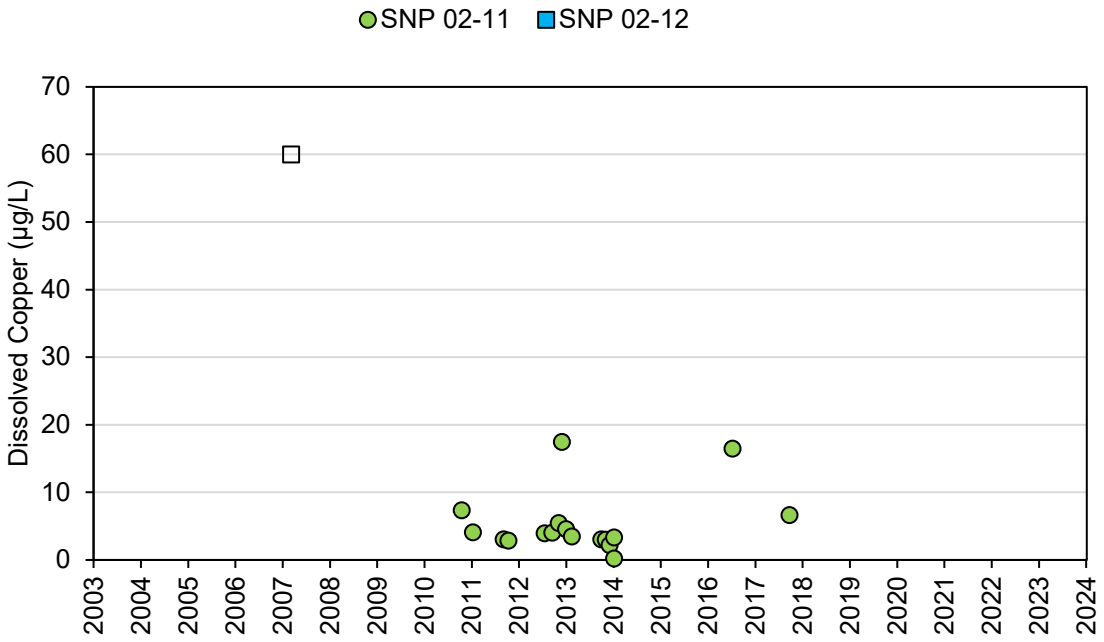

Figure 54: Dissolved Iron Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

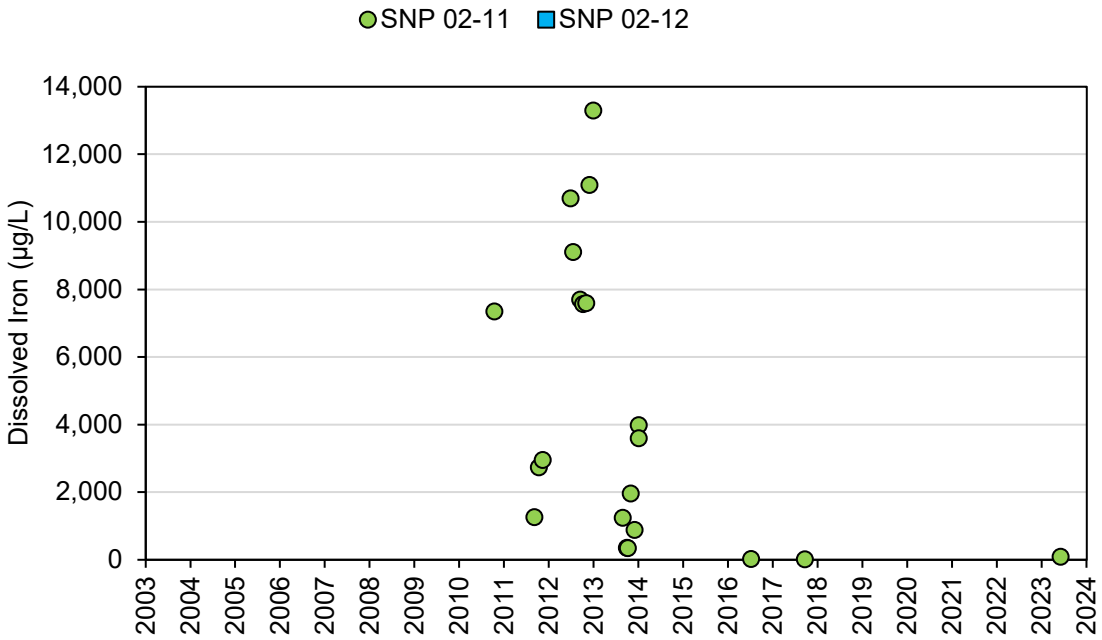

Figure 55: Dissolved Lead Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

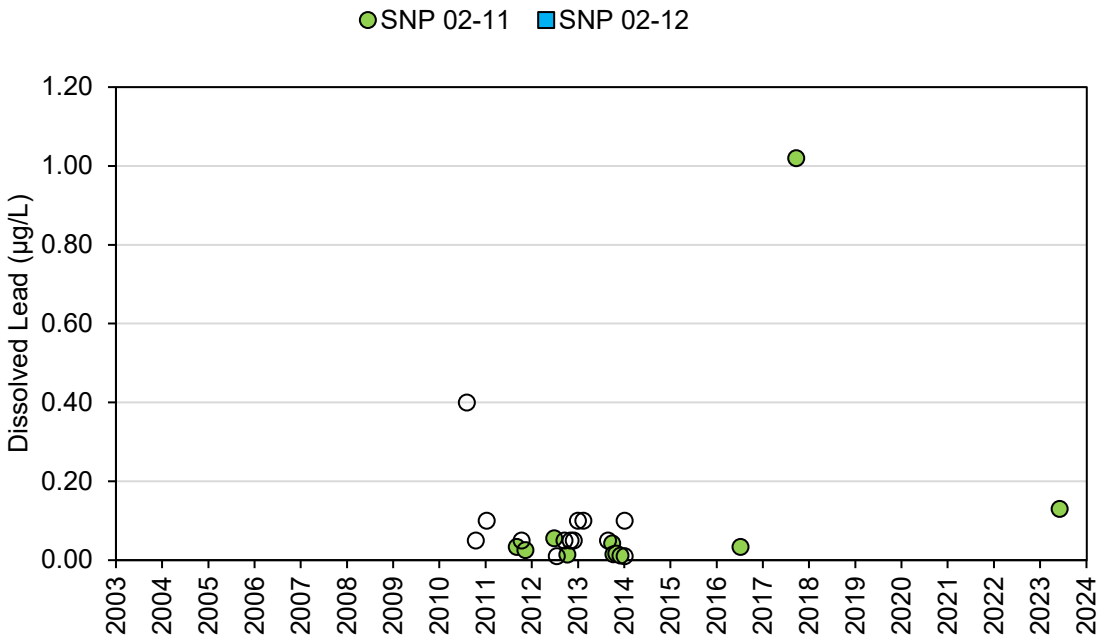

Figure 56: Dissolved Lithium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

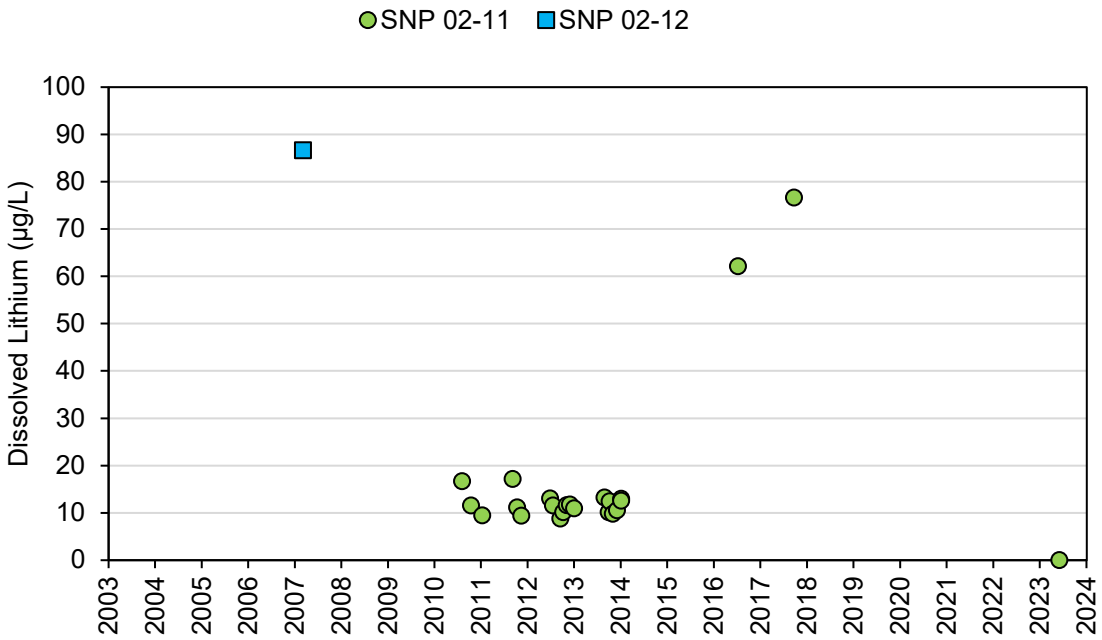

Figure 57: Dissolved Manganese Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

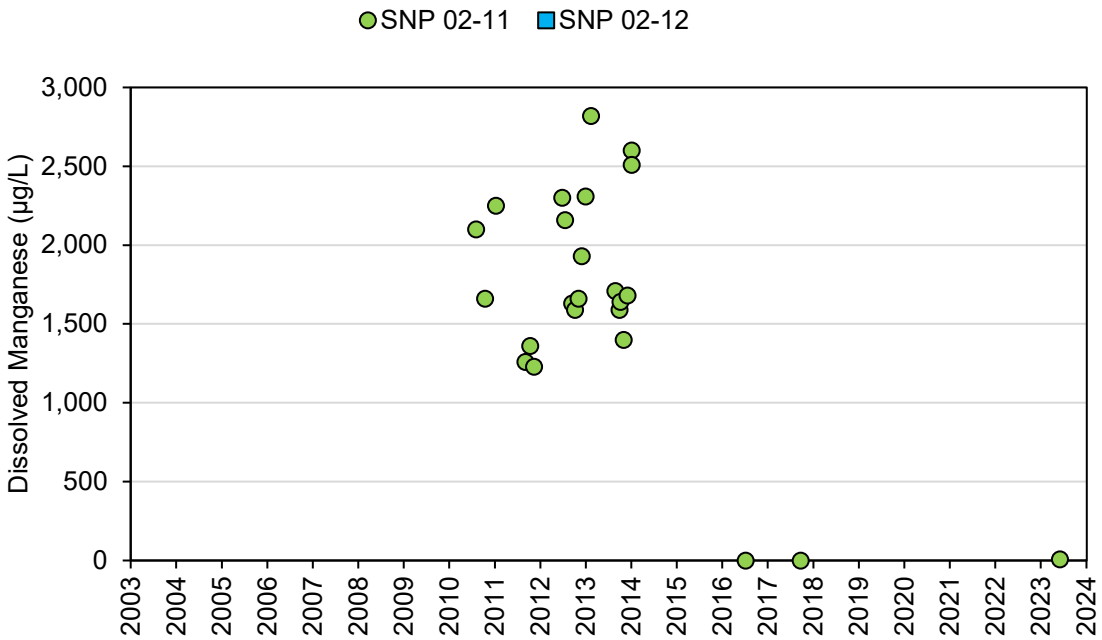

Figure 58: Dissolved Mercury Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

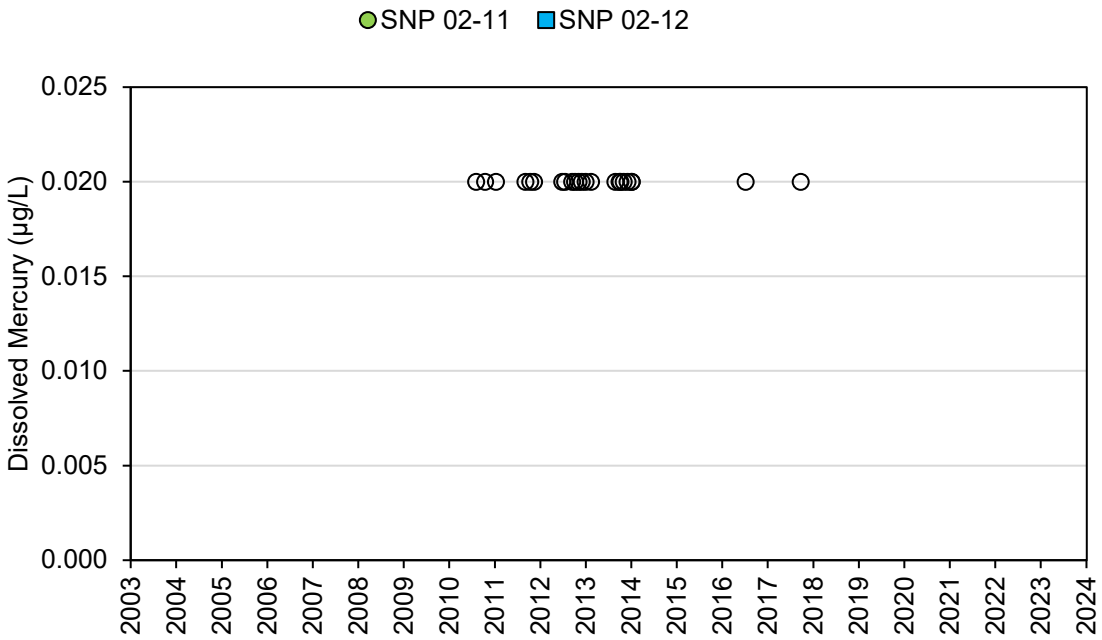

Figure 59: Dissolved Molybdenum Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

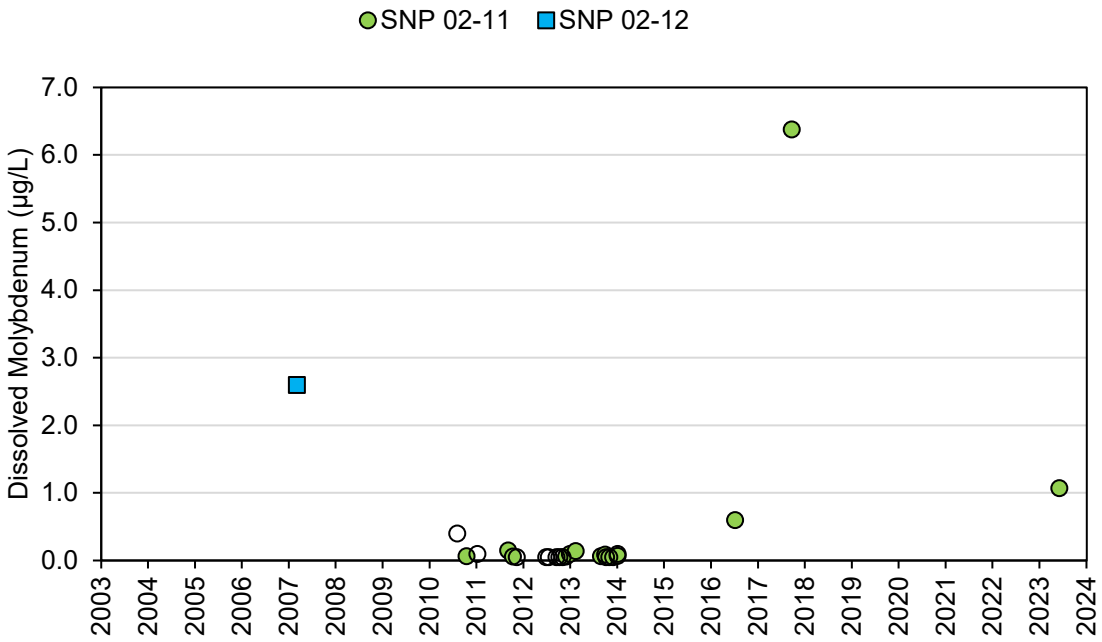

Figure 60: Dissolved Nickel Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

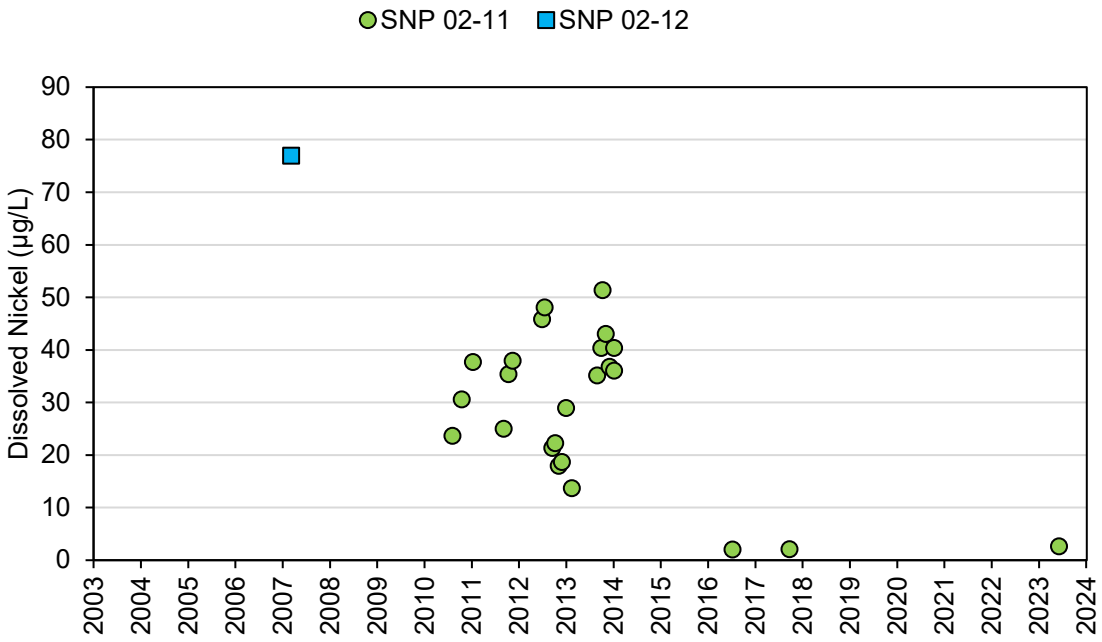

Figure 61: Dissolved Rubidium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

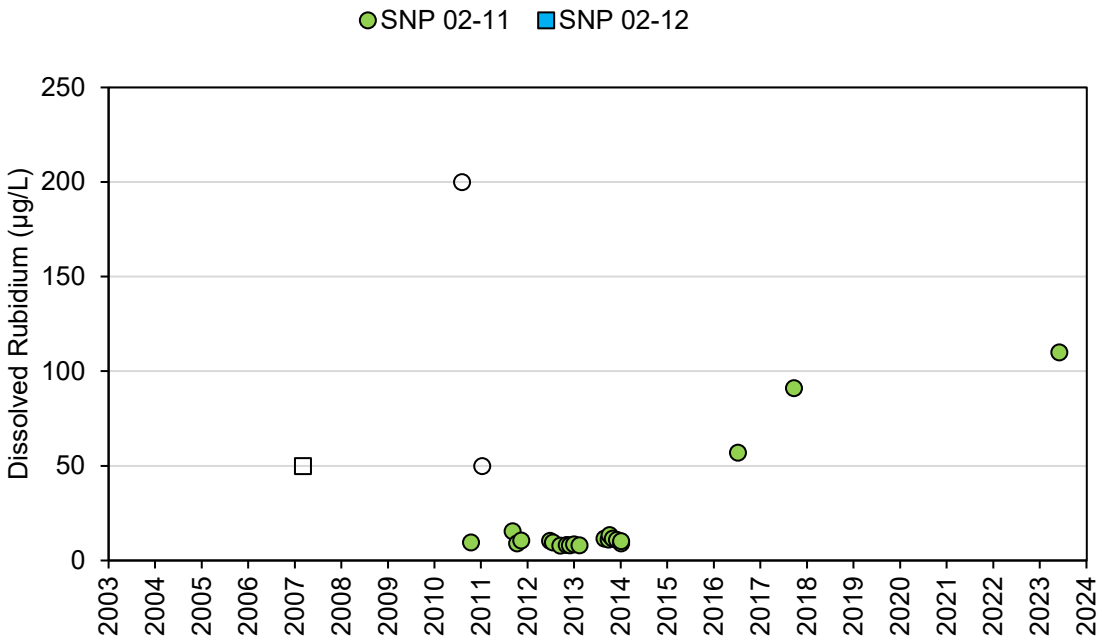

Figure 62: Dissolved Selenium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

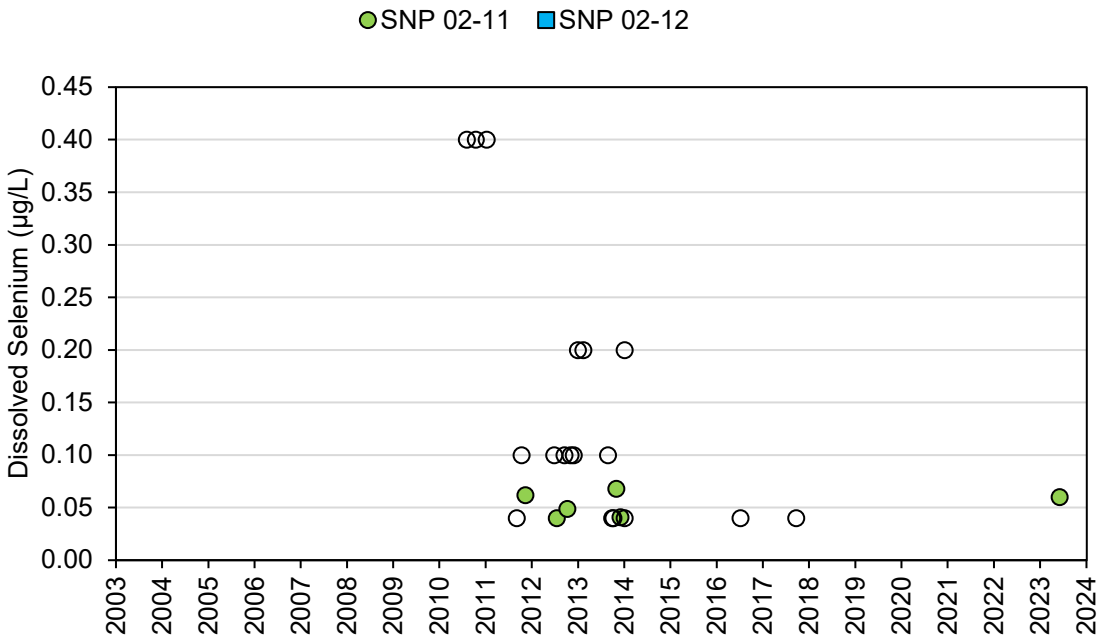

Figure 63: Dissolved Silver Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

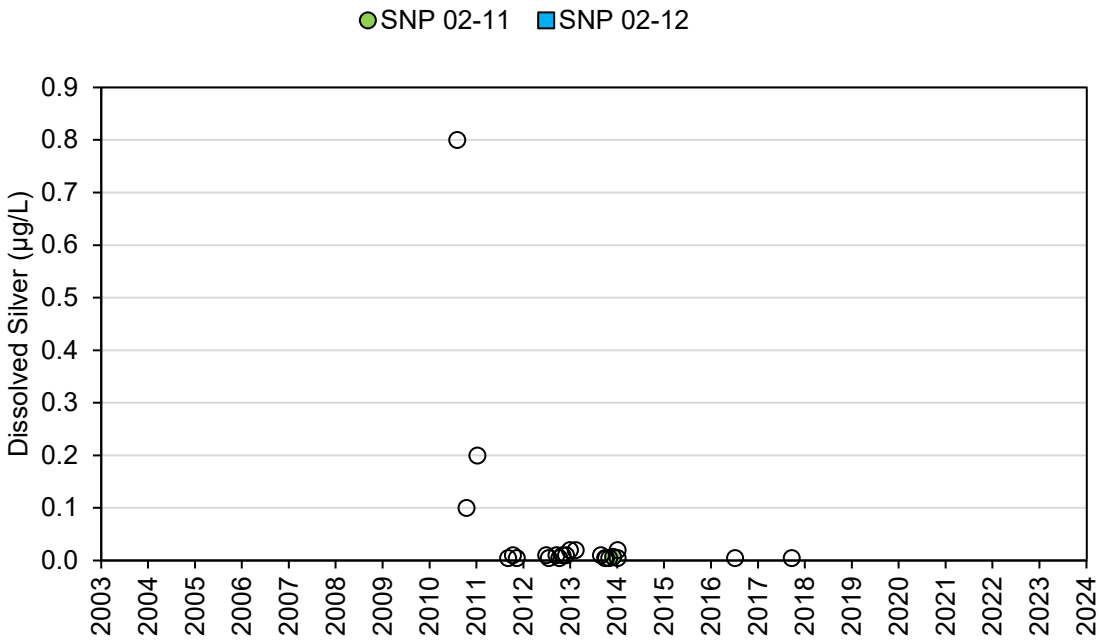

Figure 64: Dissolved Strontium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

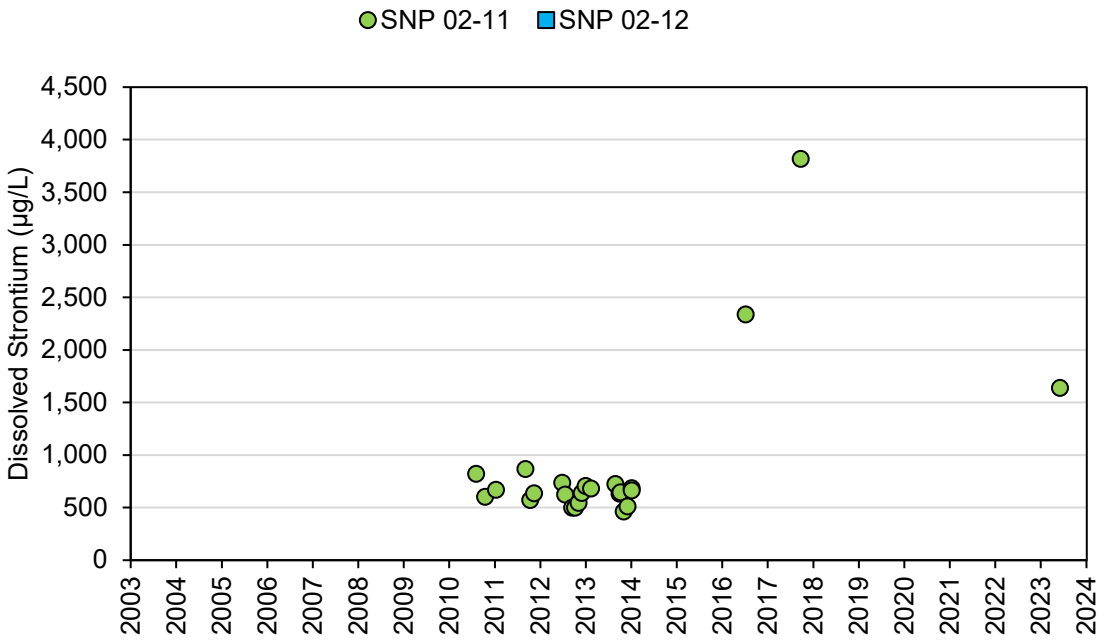

Figure 65: Dissolved Thallium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

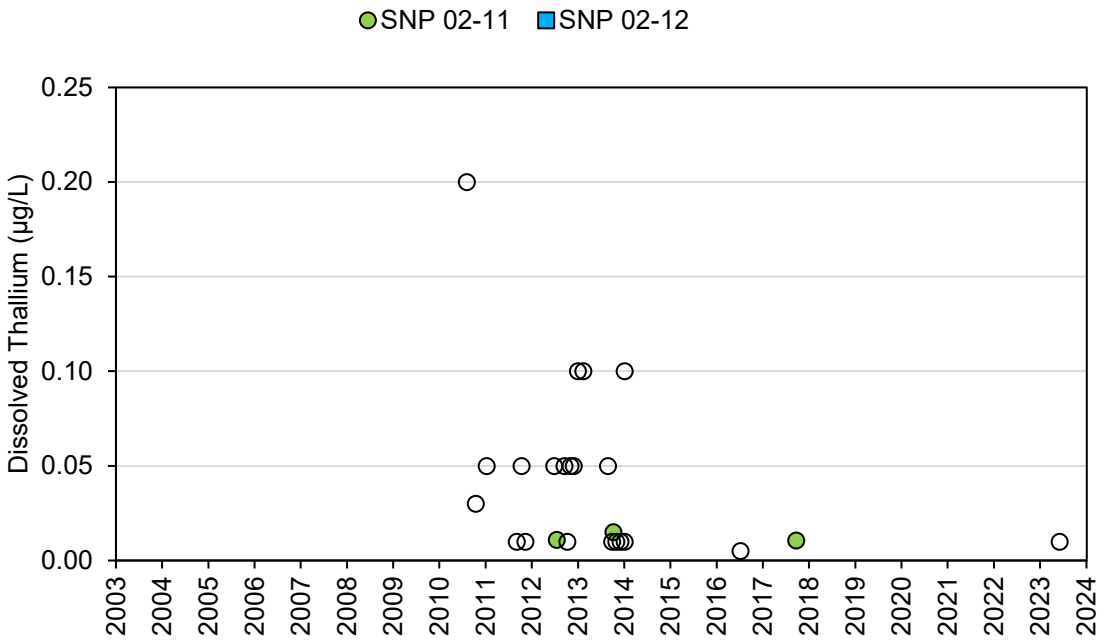

Figure 66: Dissolved Titanium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

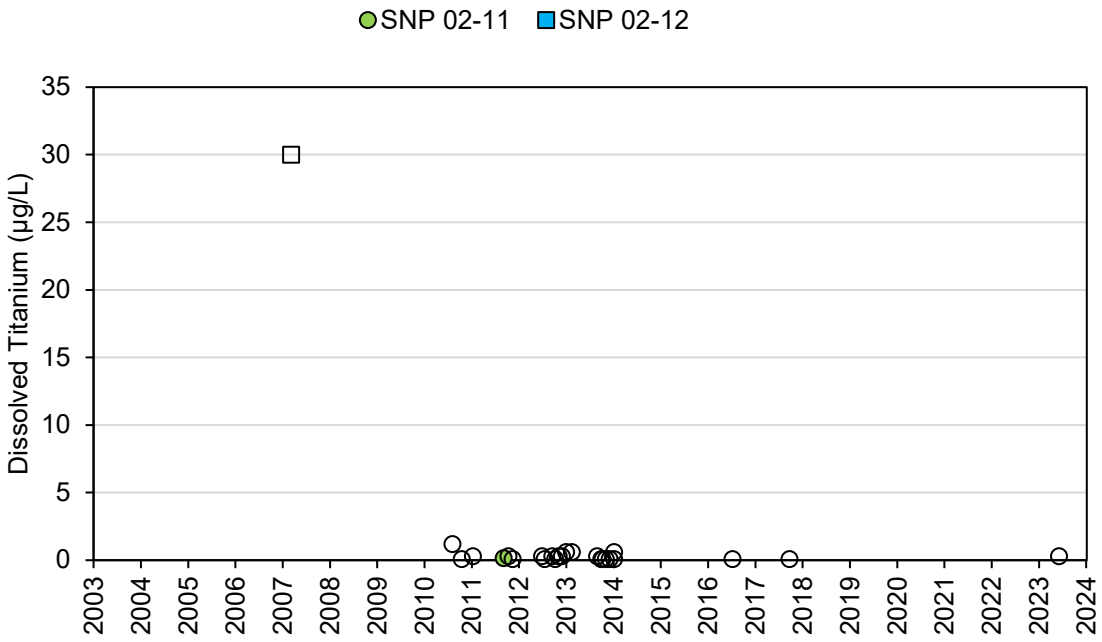

Figure 67: Dissolved Uranium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

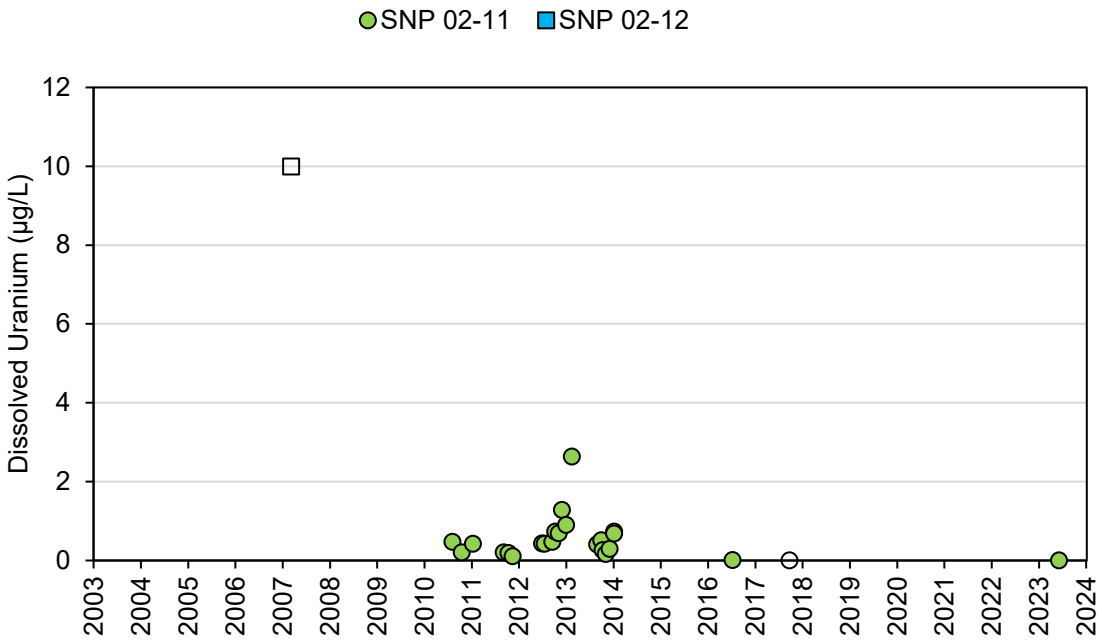

Figure 68: Dissolved Vanadium Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023

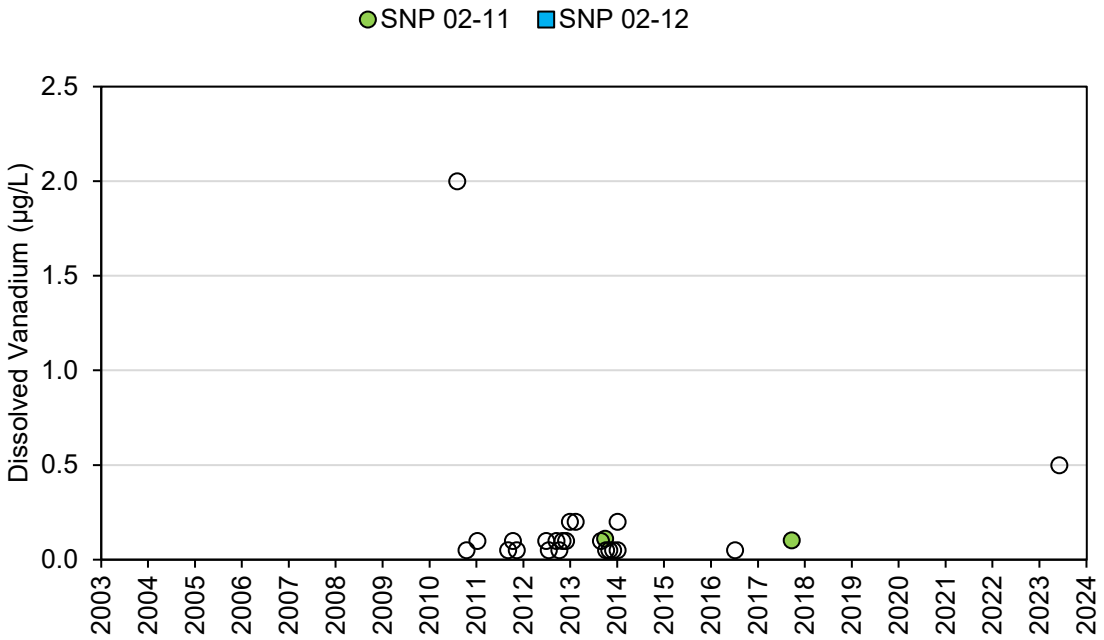

Figure 69: Dissolved Zinc Concentrations at Stations SNP 02-11 and SNP 02-12 from 2004 to 2023