



Nicole Morgenstern

# Environment

SGS Environment is excited to welcome Nina Andrascik and Nicole Morgenstern to our team!

Nina Andrascik is currently working as an Environmental Technician with SGS. She is a recent graduate from the Forest Resources Management program at the University of British Columbia (UBC) with a BSc. in Forestry. At UBC, she was elected President of the Forestry Undergraduate Society, acquired an NSERC grant to work as a research assistant where she measured phenological traits and took biological samples of tree seedlings, and taught and led labs in university level courses including biometrics, biology, and hydrology. Nina also worked as a forest biologist intern where she monitored goshawk nests and conducted callback and site surveys. Upon graduation, Nina was awarded the 'Gold Medal' to recognize the top graduating student of the faculty for outstanding scholarship, sportsmanship, and citizenship.

Nina is working with the SGS Environment team and she is looking into applying her education and experience towards the Registered Professional Forester (RPF) designation. She is participating in the wildlife, land management, and Territory-wide stewardship activities and strategies of the SGS Environment Program, both in the office and the field.

Nina has always been passionate about the outdoors and is looking forward to start working and living in the St'át'imc Territory. She is excited to meet new people and faces!

Nicole Morgenstern (they/their) is a self identifying member of Smith's Landing First Nation from the Northwest Territories. They graduated from the Forestry Resource Technician program at Vancouver Island University in 2020. They have worked for BC Timber Sales as a Resource Technician specializing in Indigenous consultation and forestry operations for 2 years and gained field experience in silviculture, road engineering and inspections, forest health surveys, and monitoring of contract work. Nicole is currently in the process of completing a 1-year internship with the Indigenous Youth Internship Program, a leadership development program which focuses on developing professional work experience and cultural knowledge with young Indigenous professionals across British Columbia.

Their love for the outdoors led them to pursue a career in forestry with an emphasis on combining traditional Indigenous knowledge with natural resource management practices. During their time off, Nicole enjoys mountain biking, snowshoeing, and creating art. Nicole's intern position with SGS starts in June 2022 as an Environmental Research Technician and they will be providing technical assistance with the wildlife and fisheries management programs.





Nina Andrascik



# **Capital Planning**

Please plan to attend the next Quarterly Capital Planning Meeting (QCPM) being held on June 16. For more information on the meeting please contact Sherry Kane for the meeting invite.

The LaJoie Dam spring drawdown work was completed on time. The results, expected later this summer, will form a part of the basis for future design decisions for the scope and construction methods. St'át'imc involvement continues through the LaJoie Technical Working Group and related Community Culture Forum as well as the critical recommendations made by the Joint Planning Forum related to water flow and management.

The photo provides a perspective of the dam relative to the people and vehicles at the base of the dam (elevation about 700m)

The Bridge River Transmission Project (BRTP) has concluded the 2022 spring field work, results are expected in late summer. Discussions on the supply chain strategy and contract opportunities for St'át'imc businesses continue through this year.

BRTP construction begins with access and clearing work in 2023 followed by line construction work in 2025

Two critical studies are now underway to examine, in detail, the aspects of transportation, accommodation and socio-economic impacts - ONE for all Bridge related BC Hydro projects and ONE specifically for the LaJoie Dam Improvement Project. A series of regional and community engagement sessions will be a part of the study and results are expected later this year. Please look out for more information related to these sessions.

The St'át'imc SharePoint Information Portal access now requires Multi-Factor Authentication – an instruction sheet has been sent out on how to set this up. The instructions also provide a way to contact tech support should you have a problem. If you did not receive the instructions, please call Sherry Kane at SGS

(778.771.5903)



Site Layout

# BR2 Intake Dam Safety Project – Intake and Slope Stablization

The BR2 intake is a free-standing structure located 4 km upstream of Terzaghi Dam that diverts flows from Carpenter Lake to the BR2 powerhouse via a concrete-lined tunnel. The intake is accessed by a bridge which is supported by a concrete pier anchored into the foundation slope (see image 1). The intake consists of a single Intake Operating Gate (INOG) that can only be operated locally.

# **Access Pier Foundation**

Engineering discovered the undermining of the BR2 intake access bridge pier foundation during a site visit in May 2021. A subsequent investigation in June 2021 was carried out by members from the Structural and Geotechnical Engineering teams to assess the condition of the structure and solutions for remediation. Conclusions from the investigation were as follows:

- The existing concrete pier is overall satisfactory. Only 4 of the 14 rock dowels are exposed where the foundation has been undermined.
- The rock slope is 9 m high consisting of a highly foliated metabasalt and is generally classified as poor-quality rock.
- The concrete pier is undermined approximately 0.5 m. The rate of progressive erosion/ weathering of the slope is not well understood as there are no previous records of its condition.

Although the investigation deemed the structural integrity of the bridge to be satisfactory, there is a safety concern for workers using the bridge that further destabilization of the rock slope could lead to a loss of support of the pier foundation. As such, the use of the access bridge has been restricted until the rock slope is stabilized to provide a reliable foundation.

Intake Overburden Slope The overburden slope above the access road to the BR2 intake has been sloughing and rolling boulders under static conditions since the intake was originally excavated. This has been a constant hazard for workers. Numerous attempts have been implemented to stabilize the slope; however, deeper-seated sloughing has since occurred at the top of the slope partially failing the existing pinned mesh. There is a risk that if the slope retrogresses further upslope, the existing pinned mesh may be compromised, and large trees may be undermined. A lock block wall was built at the toe of the slope to contain slumped material from the slope. Once the containment within the lock block wall is full, there will be an increased hazard to workers parking at the intake area.

### Location

The BR2 intake is a free-standing structure located 4 km upstream of Terzaghi Dam

### **Current Project Phase**

The Project is currently in Definition stage, planning to move into Implementation by January 2023

# **Alternatives**

This project is anticipated to have a single variable alternative (SVA). The identified leading alternative consists of two parts:

1. Stabilize the rock slope at the access pier foundation and prevent continual undermining. Options for stabilizing the rock slope below the pier include installing anchored shotcrete or by constructing a concrete retaining wall.

The "do nothing" alternative is not recommended for the access pier foundation because of the current restrictions that would remain in place that are not practical long term and the risk of losing access to the intake.

2. Stabilize the overburden slope above the intake with pinned meshing using 1 to 5 m long anchors to prevent further unravelling of the slope.

The "do nothing" alternative is not recommended for the overburden slope as it does not address or mitigate the impacts of continual sloughing that would eventually comprise the existing protective measures in place. A larger slope stabilization problem may exist if the continual rate of slope sloughing continues over the next 2-3 years.

# Activities to occur in this phase (definition):

- Complete detailed engineering design for pier rock foundation and overburden slope stabilization (including IFC (Issued for Construction) drawings and specs).
- Safety by design and constructability review.
- Implementation cost estimate
- Procurement for pier foundation shotcrete and overburden slope stabilization

# Activities to occur in next phase (implementation):

- Award construction contract
- Contractor mobilize to site
- Complete construction and demobilize from site

# Important Actions requested of BC Hydro: TBD

# Important Actions requested of St'at'imc Government Services:

- · Review project information update.
- Provide direction for appropriate information sharing and engagement, including with communities, at the Joint Planning Forum, Quarterly Capital Plan Meetings and St'át'imc Authority, as required for the project

### **Milestone date Milestone Description**

Milestone Date	Milestone Description
October 2022	Engineer Design Report,
	specifications and IFQ
	(Issued for Quotation)
	drawings
January 2023	Award Construction
	Contract
April 2023	Construction start (Pier
	Foundation)
June 2023	Construction start
	(Overburden Slope)

September 2023	Construction Completed
	(ISD)
June 2024	Project close-out

# Nature of ground disturbance:

- Tree removal on overburden slope
- Install pinned mesh on overburden slope
- Rock wall scaling

# Archaeology Environment + Flows:

- Environmental and archaeology screening assessments to be completed to determine risk and mitigation/ monitoring requirements for tree removal, work on overburden slope and rock wall scalling.
- DFO Request for Project Review, under the Fisheries Act, to be submitted for rock wall calling works.
- Environmental Management Plan will be developed for construction.
- There are no expected impacts to water conveyance during construction or after the project is complete. The project will develop an Interim Dam Safety Risk Management Plan (IDSRMP) that includes facility recall plans prior to construction (e.g., ensuring there is a plan for getting the facility/ equipment back in service in a certain amount of time, if required, to pass water)

For more information on project activities, contact: Robyn Spencer: robyn.spencer@bchydro.com



Intake Overburden Slope



# September 15, 2022 | 10am Sunstone Golf Club in Pemberton, BC

\$800 per team of 4 or \$225 per player 18 Holes

Gold Package	\$2750
Silver Package	\$2250
Bronze Package	\$1750

**For more information** on packages including prizes, sponsors, and registration forms please contact:

Courteney Adolph-Jones set@statimcgs.org

Form and payment are due by Friday, August 12, 2022

Signup form https://tinyurl.com/3phwkjhw



Golf FUNdraiser sign up form



Final Skipper Training Sign up date April 22nd Final Canoe Journey Participant Sign up May 13th

Sponsored by :			
As		June 19th	
	Canoe Jou	irney Camp Set up	1pm
Economic	5	:00 pm Dinner	
Development, Education &		June 20th	
Health	7:00 am Br	eakfast/Camp take	down
	8:00 an	n Morning Ceremor	ny
CIRCO	8:3	0 am Departure	· /
LILLOOET	n	Aid Lake Break	
TIMBER	Arrivir	ng a shore in Tsal'al	h
PHARMASAVE		Set up camp	
A SAM		Dinner	
36		June 21st	
	7:0	0 am Breakfast	
Honour Your Health	7:30 an	n Morning Ceremor	лy
Challenge	8:0	0 am Departure	
ISPARC	Ν	Aid Lake Break	
Adhanas Bani Prinsi Adhin Afrikanan Jawa	Arriv	ing ashore T'it'q'et	
<b>Ø</b>	Closing Journey Prayers/Meal/Celebration		ebration
POODS		Sign up with	
Xaxli'p			
Deborah Peter	rs (ext 1250)	T'it'qe't	Xwisten
or Brittany Mc	Kay (Ext 1108)	Shauna Riley	Rubin Williams
250-256-4800		250-256-4118	250-256-7423
Ts'kw'aylaxw	N'quatqu	a	
Rebecca Ned	Julie Theva	arge	
250-256-4204	604-452-3	291	
		Ages 13+	
(Un	der age 13 hav	e to be accompar	nied by adult)
	Follow	ing Covid Guidline	20



### Job Posting

### Fisheries Project Summer Position Temporary Full-time



St'át'imc Government Services (SGS) is seeking a Fisheries Project Summer Position to provide technical assistance with day-to-day activities, including land use, environmental, and mitigation planning for fisheries, aquatic species at risk, and other natural resource concerns for the Environment Department, both in the office and in the field. This position will report directly to the SGS Environment Manager.

### **Duties and Responsibilities:**

- Performs all duties in accordance with the St'át'imc Government Services policies, standards, and procedures, and as directed by the SGS Environment Manager.
- » Maintains confidentiality on all matters relating to the affairs of St'át'imc Government Services.
- Assists the SGS Environment Manager and Fisheries Technician with the collection and analysis of information and Traditional Knowledge of aquatic species at risk and habitats, including habitat quality assessments, stock assessments, catch monitoring, and biological sampling.
- Participates in monitoring and practical set-up for water quality and eDNA sampling projects.
- » Assists with providing recommendations effectively on natural resource issues as they arise, both orally and in writing.
- » Participates in technical meetings as required.
- » Focuses on team project delivery on multiple projects and ensures quality standards on deliverables under the direction from the SGS Environment Manager and Fisheries Technician.
- Works in cooperation and as a team member of the SGS Environment Program, other staff of St'át'imc Government Services, and the St'át'imc Communities.

#### Education:

- Currently working towards a post-secondary program (technical diploma or bachelors) focusing on Environment, Fisheries/Aquatic Management and Biology, or other related discipline.
- Must be between 15 and 30 years of age (inclusive) at the start of employment.

### **Experience and Personal Qualifications:**

- Understands the importance of rigorous data collection and record keeping standards.
- » Ability to process/file data sets and prepare memo reports.
- » Entry level experience within St'át'imc Territory, its diverse ecology, and traditional and current use of wildlife, fisheries, and plant resources.
- » Familiar with fish identification and life histories for species within the St'át'imc regional area including Pacific salmonids.
- » Independent problem-solving skills and able to identify key issues and overcome obstacles.
- » Excellent oral and written communication skills.
- » Promotes positive and professional relationships both within and outside of the workplace.
- » Effective organizational skills and attention to detail.
- » Experience working with First Nations organizations, agencies, or communities will be considered an asset.
- » Efficient computer skills with MS (Word, PowerPoint, Outlook, Excel).
- Able to demonstrate tact, discretion, sound judgement, and respecting confidentiality.
- Flexible and adaptable
- » Good work ethic and able to work with integrity.

### Knowledge:

- Understanding of St'át'imc Communities, Culture, and Traditional Territory.
- » Knowledge of ecology, species identification, habitat requirements and conservation threats within the Territory
- » Demonstrated knowledge of appropriate Government Regulations.

Conditions of Employment:

- » Subject to a criminal record check.
- Valid driver's license.
- Includes both office and outdoor fieldwork, including hiking of rough terrain and in variable weather conditions.
- Ability to travel as required.
- Ability to work overtime and weekends as required.

Preference will be given to qualified applicants of St'át'imc or First Nations ancestry. Further information on this position can be obtained from Ellen Reyes at <u>environgr@statimcgs.org</u>

Please submit resume and cover letter to the Attention of: Ellen Reyes by one of the following:

Mailing:	St'át'imc Government Services, P.O. Box 2218, Lillooet, BC V0K 1V0
Email:	enviromgr@statimcgs.org
Fax:	(250) 256-7119
Closing Date:	June 3 <sup>rd</sup> , 2022





### Job Posting

### Heritage Technician Summer Student

### **1 Position - Temporary Full-time**

St'át'imc Government Services (SGS) is seeking a Heritage Technician Summer Student to provide technical assistance with conducting office and field tasks to document and protect archaeological and heritage resources in St'át'imc Territory. Heritage Technician will report directly to the SGS Heritage Project Coordinator and work with the Culture and Heritage Team on a variety of archaeology and heritage projects. Much of the work will be conducted on BC Hydro projects.

### Duties and Responsibilities:

- Performs all duties in accordance with the St'át'imc Government Services policies, standards, and procedures, and as directed by the SGS Heritage Project Coordinator.
- Maintains confidentiality on all matters relating to the affairs of St'át'imc Government Services.
- » Participates in archaeological survey and assessment work, including recording observations in field notebooks, data collection (photos, GPS, tablet), and map reading.
- » Conducts laboratory and office-based tasks, including background research, artifact cataloguing and analysis, download field data, site form preparation, heritage report writing, accessing the BC Archaeology Branch Database.
- » Conducts physical work including carrying personal field equipment for shovel testing, screening of soils, identification and recording of artifacts and be able to document finding in fieldnotes.
- » Collaborates with the Heritage GIS Technician with field data management. Updating Esri Applications (Field Maps, Survery123, Dashboards) with data and creating survey forms.
- » Participates in team, staff, community, and technical meetings as required.
- » Focuses on team project delivery on multiple projects and ensure quality standards on deliverables under the direction from the SGS Heritage Project Coordinator and Heritage Staff.
- » Works in cooperation and as a team member of the SGS Culture and Heritage Department, other staff of St'át'imc Government Services, and the St'át'imc Communities.
- » Answer heritage inquiries (email, telephone, virtual meetings or public events).

#### Education:

- » Currently working towards a post-secondary program focusing on Archaeology, Anthropology, or First Nations studies
- » RISC qualifications, field training and experience.

### **Experience and Personal Qualifications:**

- Entry level experience with following protocols, identifying archaeology sites, recording field notes and observations and the documentation and reporting of findings, or a willingness to learn these skills.
- » Familiarity and entry level experience within St'át'imc Territory and St'át'imc culture and heritage.
- » Excellent physical ability and willingness to perform field work in a variety of locations and conditions, including extended travel.
- » Comfort working with electronic devices such as tablets, two-way radios, handheld GPS, survey equipment, and Garmin inReach.
- » Efficient computer skills with MS (Word, PowerPoint, Outlook, Excel, Teams) and video conferencing.
- » Problem-solving skills and able to identify key issues and overcome obstacles.
- Effective oral and written communication skills.
- » Effective interpersonal and people management skills.
- » Effective organizational skills.
- Ability to demonstrate tact, discretion, sound judgement, and respecting confidentiality.
- Flexible and adaptability.
- » Good work ethics and do work with integrity.
- » Commitment to health and safety.
- » Experience working with First Nations organizations, agencies, or communities an asset.

### Conditions of Employment:

- » Must be between 15 and 30 years of age (inclusive) at the start of employment.
- » Subject to a criminal record check.
- Valid driver's license an asset.
- Ability to travel as required.
- » Ability to work overtime and weekends as required.

# NOTE: Proof of COVID-19 Vaccination will be required to conform to BC Hydro COVID-19 Vaccination Policy.

Heritage workers will provide their own personal safety protection clothing including steel toe boots, hi-vis vest, and eye protection. Gloves and rain gear are recommended. SGS Heritage can assist with funding opportunities for field gear. SGS Heritage will provide a hard hat and hearing protection.

Preference will be given to qualified applicants of St'át'imc or First Nations ancestry. Further information on this position can be obtained from SGS Heritage at <u>heritage@statimcgs.org</u>

Please submit a resume and cover letter to the Attention of SGS Heritage by one of the following:

Mail:	St'át'imc Government Services, P.O. Box 2218, Lillooet, BC V0K 1V0
Email:	heritage@statimcgs.org
Fax:	250-256-0445
Closing Date:	June 3, 2022

We thank all applicants. Only those selected for an interview will be contacted.



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