



GWAI

ENGINEERING

CIVIL & ENVIRONMENTAL ENGINEERING
PROJECT & CONSTRUCTION MANAGEMENT

Strength Through Relationships



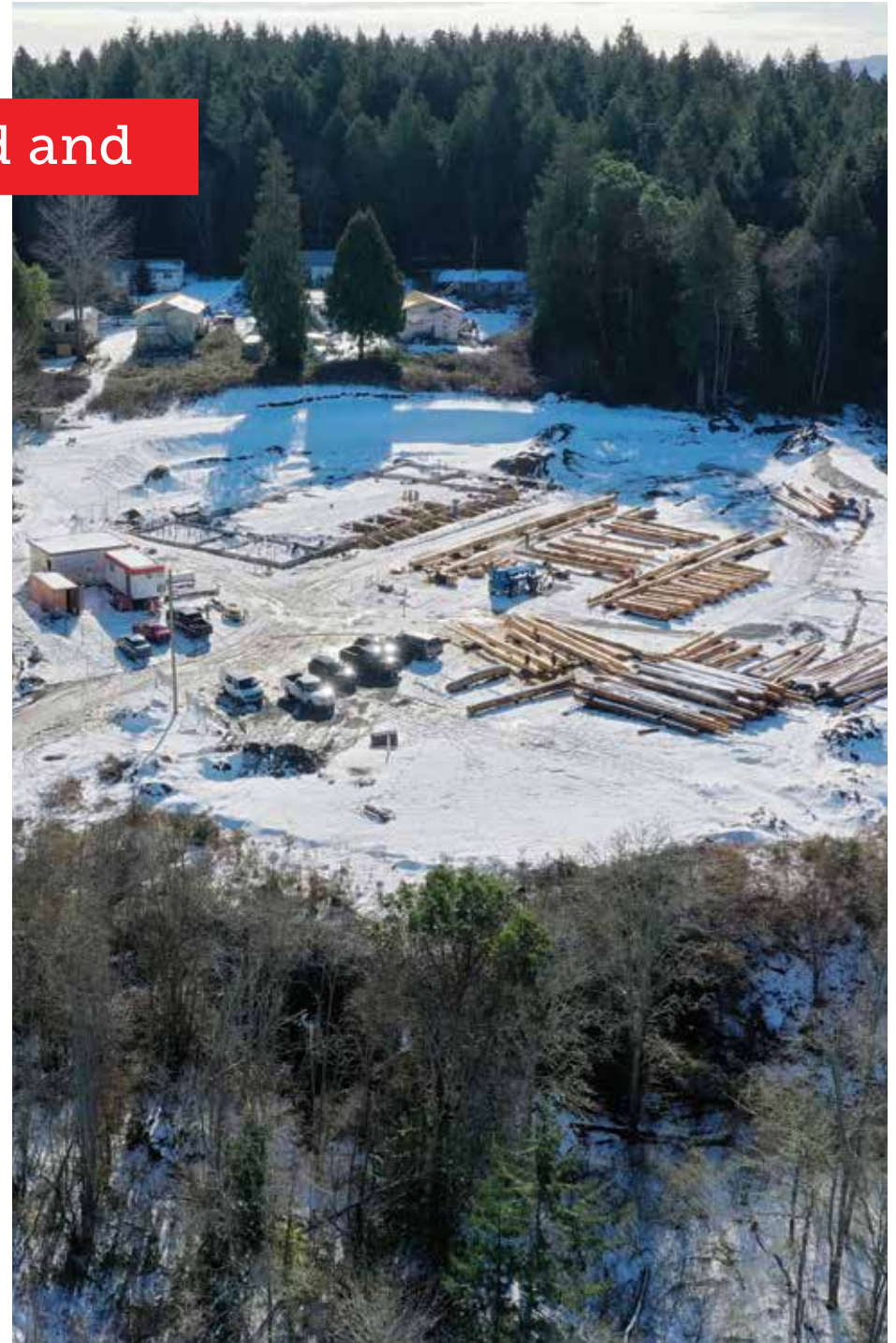
Gwaii is an Indigenous owned and operated consulting firm

We service and build capacity with First Nation and Indigenous communities through infrastructure development.

Gwaii and its team of engineers, geoscientists and project managers have been successfully designing and developing infrastructure in B.C since 1990. From initial funding applications to project completion, our focus is on your community and maintaining high standards at every stage.

Indigenous owned and operated, we understand our First Nation clients' and communities' needs from day one. Our team oversees every aspect of infrastructure development ensuring your community is delivered a solution that is built to last.

In all the communities we service, Aboriginal hiring and capacity building is prioritized throughout the procurement process.





CIVIL
ENGINEERING



ENVIRONMENTAL
ENGINEERING



PROJECT & CONSTRUCTION
MANAGEMENT

At Gwaii we provide a wide variety of services to our clients, some recent project examples include:

Tsawout First Nation's Longhouse: Civil engineering, storm water management

Malahat First Nation: Wastewater feasibility and infrastructure for marina

CRD McLoughlin Point Wastewater Plant: Environmental engineering

Witset First Nation band housing: Environmental assessments

Shíshálh Nation developments: Civil engineering, construction management

Old Masset Clean Energy: Grant writing

Seabird Island Band's Cultural Centre: Project and construction management

Community engagement and Indigenous relations initiatives





ENVIRONMENTAL ENGINEERING

A & B Jetty Recapitalization Project – CFB Esquimalt Dockyard

Gwaii's qualified environmental professionals (QEPs) supervised project activities that included residual management cover (RMC) placement, pile installation, removal and disposal of drill cuttings and water, and concrete pouring.

To ensure compliance with governing environmental mandates, Gwaii has been conducting underwater noise and pressure monitoring to assess pile driving methods and ensure compliance in the event of underwater blasting, along with in-situ water monitoring.



ENVIRONMENTAL AND CIVIL ENGINEERING

Westshore Speedway

In preparation for a multi-phased mixed-use development on this former commercial and industrial property, Gwaii's principals led a third-party review and environmental investigation that identified pre-purchase environmental liabilities for the client.

Along with environmental investigations, the team performed in depth feasibility studies for the phased build-out, including infrastructure modelling, site servicing, stormwater management, grading, and overall layout.



CIVIL ENGINEERING

Tsain-Ko Village Shopping Centre

The Crown Jewel of shíshálh Nation, the Tsain-Ko Centre (Tsain-Ko Village Shopping Centre), is home to many national retailers with over 87,500 sq ft of shopping area.



ENVIRONMENTAL ENGINEERING

Hill Avenue, Old Masset Village, BC

Gwaii completed a phase 1 ESA for due diligence at multiple locations for a future land development in Haida Gwaii on Old Masset Village traditional territory for the Naay Kagandas Saving House Society.



ENVIRONMENTAL ENGINEERING

CRD McLoughlin Point Wastewater Treatment Plant

The McLoughlin Point Wastewater Treatment Plant in Esquimalt can treat 108 megalitres of wastewater per day to a tertiary level for the Capital Regional District – one of the highest levels of treatment available. GWAI's principals led the remediation efforts which included the removal of over 30,000 tonnes of contaminated soils.



PROJECT MANAGEMENT

Tsawout First Nation's Longhouse

After the Tsawout Nation lost their Longhouse in a devastating fire in 2009, GWAll worked with the Nation to pull teams together and assisted with the funding applications to make the project more viable. GWAll is now overseeing the project management on their new ceremonial longhouse which is slated for completion in fall of 2021.



ENVIRONMENTAL AND CIVIL ENGINEERING

Our House of Clans

In partnership with BC Housing, Tsain-Ko Properties has developed the Our House of Clans project which features 34 units of affordable housing and 7,500 square feet of retail space. This mixed-use project celebrates the rich cultural heritage of the shíshálh people and represents the interdependence and cooperation of the five shíshálh clans — Bear, Frog, Orca, Wolf, and Eagle.

PRE-DEVELOPMENT ENVIRONMENTAL STUDIES

- Water Supply and Treatment Studies
- Drinking Water Quality Assessments
- Environmental Impact Assessments

ENVIRONMENT MANAGEMENT

- Environmental Management Plans
- Construction and Post-Construction Monitoring
- Erosion and Sediment Control Plans
- Water Quality Monitoring
- Soil Quality Management
- Air Quality and Noise Monitoring
- Biological Surveys (Bird Nests and others)
- Underwater Noise Monitoring
- Riparian Area Regulation

CONTAMINATED SITE ASSESSMENTS AND REMEDIATION

- Hazardous Building Material Surveys
- Environmental Site Assessments
- Stage 1 & 2 Preliminary Site Investigations
- Detailed Site Investigation
- Remediation
- In-Situ Technologies
- Ex-Situ (Excavation)
- Fuel Tank Removal and Remediation
- Risk Assessment
- Third Party Review and Monitoring
- Environmental Liability Assessment
- Regulatory Instruments (Certificate of Compliance, etc.)

REGULATORY APPROVAL AND AGENCY LIAISON

- Liaison with municipal, provincial and federal regulators
- Assistance with Compliance Issues

CIVIL ENGINEERING

- Roadway Design
- Sanitary Sewer and Drainage Design
- Stormwater Management Plans
- Sediment and Erosion Control Plans
- Pump Station Design
- Water Modelling and Network Analysis
- Water and Wastewater Treatment Design
- Hydrogeology
- Subdivisions and Housing Developments
- Commercial and Industrial Developments
- Utility and Site Servicing
- Site Layout and Grading

PLANNING AND ENGAGEMENT

- 3D Site Modelling
- Land-Use Planning
- Community Development Planning
- Feasibility Studies
- Community Consultation
- Indigenous Engagement

PROJECT MANAGEMENT

- Grant Applications
- Budgeting and Tendering
- Contract Administration
- Construction Management
- Asset Management Plans

DESIGN/BUILD CAPABILITY

- Civil Infrastructure
- Site Improvements
- Roads and Walkways
- Site Utilities



Tsawwassen First Nation

Qualicum First Nation

shíshálh Nation

WSÁNEĆ Leadership Council

Tsawout Nation

Tsartlip Nation

Haida Nation

Sik-e-Dakh (Glen Vowell Band)

Seabird Island Band

Cowichan Tribes

T'Sou-ke First Nation



Malahat First Nation

K'omoks First Nation

We Wai Kai Nation

Tobacco Plains Indian Band

Sc'ianew - Beecher Bay

Kitasoo First Nation

Ulkatcho First Nation

SDNA Southern Dakeh Nation Alliance

Songhees Nation

Mamalilikulla First Nation



Wei Wai Kum
FIRST NATION



WSÁNEĆ
LEADERSHIP COUNCIL



Ditidaht
FIRST NATIONS



HAIDA NATION



KITASOO/XAI'XAIS
First Nation



shísháhl first nation



Songhees



Tsartlip
First Nation



We Wai Kai Nation



ULKATCHO
FIRST NATION

Delivering solutions that are built to last



Corey Brown, M.Eng. EIT, ASCT
PRINCIPAL, CIVIL ENGINEER

Corey is a member of the Old Masset Village Band, which forms part of the Haida Nation on Haida Gwaii. He is a member of the Sta'staas Eagle Clan and is the nephew of the current serving hereditary Chief 7idansuu. Corey is a registered member of the Aboriginal Professional Association of Canada.



Mike Achtem, P.Eng., PMP, CCA
PRINCIPAL, SENIOR ENGINEER

Mike is a registered Professional Engineer with extensive experience consulting on land development and municipal infrastructure projects throughout B.C. dating back to 1992. Mike is also a certified Project Management Professional as well as a Certified Contract Administrator with the Master Municipal Construction Association.



Josh Bartley, P.Eng.
PRINCIPAL, TECHNICAL DIRECTOR

Josh is a Professional Engineer with a diverse background in the construction, municipal and consulting fields. He approaches projects and capacity building initiatives from a creative and technically sound perspective to support long-term sustainability within communities.



Brad Harrold, P.Geo., PMP, MBA
SENIOR ENVIRONMENTAL MANAGER,
GEOSCIENTIST

Brad is a registered Professional Geoscientist and Project Management Professional with more than 26 years of diverse environmental consulting experience throughout British Columbia. He holds a Bachelor of Science degree from Simon Fraser University and a Master of Business Administration degree from Royal Roads University.



Matthew George
CAPITAL PROJECTS MANAGER

Matthew is a member of the Big Island First Nation located in Kenora, Ontario. He has worked in the construction industry since 2011 and has experience in all sectors of construction including: estimating, subcontractor management, construction management, real estate development, and capital project management.



Sean Babulic, P. Eng.
PROJECT ENGINEER

Sean Babulic is a registered Professional Engineer with a Bachelor of Applied Sciences from the University of Waterloo. He has an extensive record of safety and environmental awareness through his leading roles on over 300 projects in Alberta, BC and throughout North America.



Steven Reichheld, B.Sc., ATAg, EPT.
PROJECT SCIENTIST

As an Environmental Scientist, Steven uses his multidisciplinary experience to develop timely and effective land development solutions for Clients and stakeholders within both the Federal and Provincial legislative frameworks. Steven has successfully completed projects in BC, YT, SK, NT, NU, QC and Alaska for a diverse portfolio of clients including Provincial, Federal, First Nations, and private industry.

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GWAI
ENGINEERING

FOR RFP ENQUIRIES, PLEASE SEND TO:

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Environmental Projects

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Gwaii Engineering has consistently provided Tsain-Ko Development Corporation with a high level of civil engineering design, planning, and advice on a number of our projects since 2017. Gwaii has also been proactive in developing employment opportunities for members of the shíshálh Nation, and have been excellent ambassadors in representing our interests.

— *Jason Jenkins, Director, Tsain-Ko Development Corporation*

At Tsawout First Nation we have been very pleased with the work of Gwaii Engineering. Like many First Nations we are challenged with aging infrastructure for sewer, water, and drainage. We have benefitted from the Team at Gwaii who have jumped in to help us through planned and unplanned intervention projects. Their insights are helpful and we would recommend their company to other First Nations."

— *Mavis Underwood, Councillor, Tsawout First Nation*

www.gwaiieng.com

