

# Aaron Licker – Principal - Licker Geospatial Consulting Co.



## Education

**B.A. Geography**, Urban Studies and GIS, University of British Columbia, Vancouver, BC, 2003

**Advanced Diploma Geographic Information Systems GIS**, British Columbia Institute of Technology, Burnaby, BC, 2006

## Additional Credentials

GISP (*Certification Progress expected Jun, 2023*)

## Employment History

LICKER GEOSPATIAL CONSULTING LTD.  
Vancouver, BC - Principal (2017 to Present)

GOLDER ASSOCIATES LTD. –  
Vancouver, BC - BC GIS Lead (2013 to 2017)

GOLDER ASSOCIATES LTD. –  
Vancouver, BC - GIS  
Programmer/Analyst (2007 to 2013)

## Biography

As principal of Licker Geospatial Consulting Co. (LGeo), Aaron has been consulting as a GIS professional for over fourteen years. In that time, he has cultivated strong relationships with dozens of clients and colleagues who hold his work in high esteem. Aaron has a reputation for innovative work, a strong work ethic, and a desire to satisfy his clients' needs.

Aaron has extensive experience leading large emissions quantification assignments and, more importantly, is skilled at unlocking the value of data, analysis and visualizations for a diverse user base. Aaron's key consulting role on many projects is to act as a conduit: transforming data sourced from groups of highly technical subject matter experts through to visualization, analysis and consultation teams who must transmit and explain these typically complicated data in a cogent fashion to a diverse array of stakeholders.

Aaron's highly technical background, coupled with his extensive consultation and project management experience allows him to integrate into complex multidisciplinary projects all the while applying cutting-edge GIS and data science theories and practices to solve multifaceted problems for his clients and colleagues. Aaron is recognized as a reliable team member with a track record for technical innovation, a relentless focus on value-added GIS consulting services, and a commitment to continuous professional development.

## Expertise

**Population Forecasting** – Aaron has been estimating and forecasting households, children, students, adults and seniors and the urban/demographic conditions that drive these populations since 2007. In that time, he has developed approaches and methods that are currently industry standard for population forecasting quantification in BC. Furthermore, Aaron has consistently incorporated spatial components into his modeling which allows for an integrated assessment of land use and resulting changes to demographics in all contexts.

**Scenario Modeling and Development Forecasting** – Aaron has been crafting pragmatic results-driven scenarios for dozens of municipalities that are primarily driven by an appreciation for real estate land dynamics and evolving contexts for development. Recently, Aaron has been incorporating affordability metrics along with other quality of life indicators into his scenario evaluations which has greatly enhanced the decision-making processes of his clients.

**Land Use Analysis** – Aaron's primary task on most assignments is to assist his clients to develop their understanding of the impacts and effects of and use on related urban functions. Aaron typically demonstrates the contextual requirements to produce desired infrastructure, transit or emissions outcomes in any development context.

**Data Synthesis and Information Visualization** – Aaron's key value to projects is his ability to harness critical volumes of data and results and present comprehensible analysis and results. This ability is exceptionally useful when exercised on data-intensive projects such as energy and emissions modeling.

**Geospatial Project Scoping and Management** – Aaron is a skilled project manager and has a strong appreciation of the tremendous value that integrated data analysis can bring to any assignment. For projects of any size, Aaron has the capacity to scope and execute complex modeling work such that data are delivered appropriately and to the greatest effect



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## Select Project Experience

### Urban + Land Use Planning

- City of Vancouver CityPlan Spatial Modeling – Project Manager
- City of Nanaimo Build Out Scenarios – Project Manager
- City of North Vancouver Zoning bylaw review
- Cowichan Valley Regional District MOCP – Project Manager
- City of Colwood Official Community Plan – GIS Lead
- City of Victoria Real Estate Assessment – GIS Lead
- District of Central Saanich Official Community Plan– GIS Lead
- Rural Graham Island Official Community Plan – GIS Lead
- Retail Vitality Assessment - City of Vancouver BIAs - Project and GIS Lead
- District of West Vancouver Community Energy and Emissions Plan – GIS Lead
- City of Surrey Community Energy and Emissions Plan – GIS Lead
- Linking VKT and Urban Typologies in the Greater Golder Horseshoe- Ryerson City Institute – GIS Lead
- Burke Mountain Visioning Process – City of Coquitlam – GIS Lead
- Southeast False Creek LEED ND Certification – City of Vancouver – GIS Lead
- City of Courtenay OCP – GIS Lead
- City of Victoria – Equity Workshop – Lead
- City of Victoria Facilities Master Plan – GIS Lead
- Metro Vancouver Regional District – Regional Equity Baseline – GIS lead

### Land Analysis Projects

- SD 68 School Enrollment Forecasting – Project Director and Modeling Support
- SD 71 School Enrollment Forecasting – Project Director and Modeling Support
- District of Saanich Land Capacity Analysis – Project Director and Modeling Support
- City of Victoria – Residential Capacity Modeling – PM and Modeling Lead
- Municipal Land Supply and Demand Analysis - District of Lake Country – GIS Lead
- Municipal Land Supply and Demand Analysis - District of Mackenzie – GIS Lead
- Industrial Land Inventory – Regional District of Nanaimo – GIS Lead
- City of Langley Municipal Land Supply Analysis – GIS lead
- State of the Waterfront Report – Georgia Straight Foundation – Research and GIS Lead

### Community Energy and Emissions Planning

- Metro Vancouver Regional District Carbon Neutral Scenario Modeling – PM and Transportation Lead
- City of Abbotsford Carbon Neutral Modeling – PM and Modeling lead
- City of Vancouver Electricity Demand Forecasting – PM and Modeling Lead
- City of Vancouver – Climate Emergency Action Plan Modeling – Project Director and Modeling Support
- City of Surrey Emissions modeling update – PM and Modeling lead
- City of Richmond CEEP Update – PM and Modeling lead
- Community Energy and Emissions Plan - District of North Vancouver – GIS Lead
- Community Energy and Emissions Plan – City of Kamloops – GIS Lead and Project Manager
- Community Energy and Emissions Plan – Township of Langley
- Better Communities Better Climate Plan – Renewable Cities Institute – GIS Lead
- Residential energy use peer review and demand forecast -Town of Caledon – GIS Lead
- Municipal Energy Plan - Municipality of Chatham-Kent – GIS Lead
- Residential Buildings Energy and Emissions Baseline and Forecast – Town of Caledon, ON – GIS Lead
- Community Energy and Emissions Plan - District of West Vancouver– GIS Lead
- Community ENERGYShift Plan - City of Surrey – GIS Lead
- Community Energy and Emissions Plan - City of Winnipeg – GIS Lead
- Carvolth District Energy Study - Township of Langley – GIS Lead
- National Capital Region Sustainability and Energy Plan - City of Ottawa, City of Gatineau – GIS Lead
- Community Energy and Emissions Plan - City of Nelson – GIS Lead
- Community Energy and Emissions Plan - City of Campbell River – GIS Lead
- Community Greenhouse Gas Reduction Strategy City of Coquitlam – GIS Lead
- Energy Transition Plan - City of Edmonton – GIS Lead
- Municipal Energy and GHG Baseline - City of Victoria – GIS Lead
- City of Courtenay Energy Plan – GIS support

### **Provincial-Scale Data Modeling**

- Tract and Neighborhood Data Modelling for CanMET Energy to Develop provincial scale energy modeling data – Peer Reviewer
- Community Data Explorer - BC Ministry of International Trade – Data Developer and GIS lead
- Forest Land Cover and Carbon Analysis – BC Ministry of the Environment – GIS Lead
- On-Road GHG Inventory - Ministry of Environment and Climate Change Strategy – Project Manager
- Off-road GHG inventory - Ministry of Environment and Climate Change Strategy – Project Manager
- Buildings GHG inventory - Project director and modeling support
- Provincial GHG Attribution Methods Development - Ministry of Environment and Climate Change Strategy – Project Manager

### **Green Infrastructure**

- Parks Provision and Access Study – City of Vancouver -Project and GIS Lead
- Langford parks Assessment – City of Langford – GIS Lead
- Foot of Lonsdale Habitat Compensation Plan – City of North Vancouver – GIS Lead
- Groundbirch & Gundy Predictive Wildlife Analysis – Shell Canada – GIS Lead
- City of Richmond Environmental Management Plan Update – Project and GIS Lead
- Otter Point OCP ESA Study – Capital Regional District – GIS Lead
- City of Surrey Ecological Management Study, Phase 1 – GIS Lead

### **Drinking Water + Storm Water + Utilities**

- Resort Municipality of Whistler – Water Demands Modeling – GIS Lead
- Surrey Water System Seismic Risk Assessment – GIS Lead
- Integrated Rainwater Management Plan – City of Vancouver– GIS Lead
- Well Protection Plans – Various BC Municipalities – GIS Lead
- Groundwater Vulnerability Modeling – Township of Langley – GIS Lead
- North Burnaby ISMP – GIS Lead
- North Delta ISMP – GIS Lead

### **Logistics, Spatial Modeling and Analysis**

#### **Infrastructure and Development**

- Industrial lands intensification strategy – City of Richmond – GIS Lead
- City of Pitt Meadows Residential land Supply Analysis – GIS Lead
- District of Central Saanich Residential Land Supply Analysis – GIS Lead
- Research and analytical support for townhouse developments – City of Victoria - Project Lead
- City of Abbotsford – Snow plow route optimization – Project Director and modeling support
- Site Location Modeling and Optimization – PaintCare USA – GIS Lead
- Electric Vehicle Charging Station Optimization – Metro Vancouver – GIS Lead
- BC Highway Maintenance Review – Ministry of Transportation – GIS Lead
- Site Location Modeling and Optimization – ProductCare BC – GIS Lead
- International Automobile Auctioneers - Tow System Optimization – Modeling Support
- City of Abbotsford Snow Plow Route Optimization – Project Manager and Modeling Lead
- McNabb Creek Aggregate Mine – Burnco Rock Products – GIS Lead
- Woodfibre LNG EA – Woodfibre LNG – GIS Component Lead
- West Coast LNG EA – ExxonMobil – GIS Component Lead
- Robert’s Bank Terminal 2 Expansion SEIA – Port Metro Vancouver – GIS Component Lead
- ILM Transmission Line Archaeological Potential Review – BC Hydro – GIS Lead
- LNG Canada Facility EA – GIS Component Lead
- Wind Farm Cumulative Effects Assessment – Zero Emissions Developments - GIS Lead

#### **Agriculture and Food**

- Partnership for Water Sustainability – Agricultural land Use Story Boarding – Project and GIS Lead
- Agricultural Inventory - Metro Vancouver – Project and GIS Lead
- Agricultural Inventory – Township of Langley – Project and GIS Lead
- Food and agriculture strategy – City of Yellowknife – GIS Lead
- City-wide food and agricultural study – City of Edmonton – GIS Lead
- Colony Farms Urban Habitat Assessment – Metro Vancouver – GIS Lead
- Assessing the Impacts of Densification on Water Use – Metro Vancouver - GIS Lead

