

James Wetherill, P.Eng.

Principal

Summary

Mr. Wetherill is a Senior Geotechnical Engineer with experience in geotechnical / environmental investigation and design, pavement analysis and design, and geotechnical hazard assessment and mitigation design for private development and public infrastructure projects throughout the Lower Mainland and British Columbia. Relevant expertise also includes ISO9001-format Quality Program Management on Design/Build assignments for Municipal / Provincial infrastructure and development projects.

Professional Experience

2006 - Present

Braun Geotechnical Ltd.
Principal

1993 - 2006

Trow Associates Inc. (formerly Terra Macleod Engineering Ltd.)
Senior Associate

1992 - 1993

Pacific Site Assessment Ltd. Port Coquitlam, BC
Geotechnical/Environmental Project Engineer

1990 - 1992

BHP Canada Ltd., Port Hardy, BC
Project Geologist - Exploration

1986 - 1990

Canamera Geological Ltd., (Formerly Stetson Resource Management), Vancouver, BC
Project Engineer/Senior Geologist

Education

B.A.Sc., Geological Engineering, 1987
University of British Columbia

University Transfer Program, 1979
Okanagan College, Vernon, BC

Professional Affiliations

Association of Professional Engineers and Geoscientists of British Columbia

Vancouver Geotechnical Society

International Society of Explosives Engineers

Canadian Geotechnical Society

Geological Association of Canada

Association of Engineering Geologists

Canadian Technical Asphalt Association

SESOC

Relevant Experience

Geotechnical Engineering / Quality Management

Mr. Wetherill is experienced in geotechnical investigations for building foundation and roadway designs. His work has included program design and budgeting, supervision, soil sampling and logging, and reporting. In addition to geotechnical engineering, Mr. Wetherill has carried out Quality Program design and implementation as Quality Program Manager on several ISO 9000 Design Build Infrastructure Projects

Institutional and Industrial Developments

Lower Mainland – Fraser Valley, BC

Numerous geotechnical exploration and design for foundation, parking and access roads, rigid and flexible pavements including aprons and taxiways, and sports field design requirements. Projects have included assessments and monitoring of development impacts on sensitive off-site structures.

Residential and Commercial Developments

Lower Mainland - Fraser Valley, BC

Numerous geotechnical assessments carried out on properties ranging from single lots to acreage sites.

Municipal Infrastructure

- No. 7 and No. 11 Highway Intersection (Cedar Valley Connector), Mission, B.C.
- No. 1A Highway (Fraser Highway): Glover Road Intersection, Langley, B.C.
- Access Road for Sports Complex to Highway 99 (Sea-to-Sky Highway), Whistler, B.C.
- Network Level Study, South Fraser/McCallum Road, Old Area of Abbotsford, B.C.
- Coquitlam Network Level Study, various from 1999 to 2001, Coquitlam, BC
- Murrayville Roundabout, Langley, BC
- Mt. Lehman Interchange Project, Abbotsford, BC

Municipal Design/Build Projects:

- Numerous roadways and services in Chilliwack area in accordance with District of Chilliwack design/build project criteria include pre-design geotechnical exploration, quality assurance/quality control program design and construction monitoring and quality control testing
- Quality Program Manager; Bernard Avenue Bridge Project, Kelowna BC

Pavements, Creek Crossings and Slope Retention Systems

- Marshall Road Reconstruction, Abbotsford, B.C.
- Whatcom Creek Crossing, Abbotsford, B.C. – Multi-span, deep cover, open invert, arch culvert crossing of sensitive stream
- Canadian Forest Products Ltd. (CANFOR), Box Canyon Creek, BC –hydrological and geotechnical study for 100 ton traffic crossing
- Fraser-Surrey Docks Dynamic Deflection Study, Surrey, BC

Design/Build Provincial Infrastructure Projects:

- Quality Program Manager; Private-Public-Partnership Project, Mission Valley Interchange Project, Mission, BC
- Quality Program Manager / Geotechnical Specialist; South Surrey Interchange Project, Surrey, BC
- Quality Program Manager; Hwy 1/200 Street Interchange Project, Langley, BC
- Sierra-Yoyo-Desan Resource Road, Fort Nelson, BC
- Fort Nelson Multi Span Bridge, Fort Nelson, BC

Geology - Engineering Geology

Mr. Wetherill gained extensive experience in a wide variety of geological environments. He has been involved in project management, program design, software development, and rock slope stabilization. Field experience has included bedrock and surficial geology mapping, overburden and diamond drill management, grade estimation, core logging, and geochemical and geophysical investigation.

Geology/Geochemistry/Geophysics

- Vancouver Island Copper-Gold Exploration Program, Port Alberni, BC
- Chevron Minerals Gold Joint Venture Project, Atlin, BC
- Yukon Placer Deposit Assessment, Dawson City, Yukon
- Saskatchewan-Manitoba Volcanogenic Massive Sulphide Project, Flin Flon, Manitoba

Aggregate Study

- In-Situ/Haul Material Properties – Cox Pit Rock Quarry, Abbotsford, BC
- Gravel Reserve Exploration – City of Abbotsford Municipal Gravel Pit, Abbotsford, BC
- Gravel Resource Assessment – BC Rail Properties, Whistler, BC
- Gravel Resource Study / Mine Development, Reclamation and Closure Plan – Shaw Pit & Municipal Forest Parcel, Mission, BC
- Swamp Point Aggregate Mine Study, Portland Canal, Stewart, BC

Mine Geology/Geotechnical Engineering

- Plumbago Mine Study, Sacramento, California
- Island Copper Open Pit Mine – Pit Expansion Program, Port Hardy, BC

Geological Hazard Assessment and Mitigation

- Marshall Road Rock Slope Stabilization Project, Abbotsford, BC
- Abbotsford Development-MetroCan Watermain Alignment Joint Venture, Abbotsford, BC
- Eagle Mountain Rock Slope Design/Stabilization Program, Abbotsford, BC
- Highland Heights Rock Slope Mapping & Rockfall Hazard Assessment, Sorrento, BC
- Geotechnical Hazard Assessment – Zante Project, Kamloops, BC
- Geotechnical Hazard Assessment – Sale Project, Kamloops, BC
- Rockfall Hazard Assessment and Mitigation Design – Soda Creek Project, Williams Lake, BC
- Westside Road Shear Pile Wall, Kelowna, BC

Training and Professional Development

ISO 9001 Lead Auditor Training, 1999
Quality Management Institute

ASCE Seminars

- Advances in Ground Improvement
- Soil and Rock Slope Stability

University of British Columbia

- Waste Management Series
- Technical Writing
- Management Skills for Professionals

British Columbia Institute of Technology

- ADP-Applied Waste Management in Civil Engineering

Joint ASSHTO/FHWA/INDUSTRY Series

- Hot Mix Asphalt Construction

Canadian Geotechnical Association

- International Conference on Landslide Risk Management 2003
- International Conference on Landslide Risk Management 2005

BC Forestry Continuing Education

- Road Deactivation Seminar
- Gully Assessment Procedures

Awards

University of British Columbia, 1983

Transportation Institute, 2000