

EROSION AND SEDIMENT CONTROL

Rob Heibein has developed a specialty in erosion and sediment control from knowledge gained from training and a wide range of valuable experiences including:

- Private sector field assessments and preparation of erosion and sediment control plans in locations with very challenging climates and soil types in BC and Alberta. Inspection and implementation of erosion and sediment control during numerous land based and instream construction projects;
- Stormwater management including support for effluent discharge permit applications and compliance conditions, construction of small to large scale stormwater infrastructure, water quality treatment systems (flocculants and filtration systems) and dewatering;
- Reviewed over 400 referrals for works around fish habitat as a habitat technician and applied the federal *Fisheries Act* habitat protection policies and legislation as it relates to erosion and sediment control for construction. Specialized training in sediment effects on fish and fish habitat, inspector and fishery guardian during field investigations regarding the discharge of elevated turbidity from construction and corrective actions issued in the form of Inspector's Directions;
- Products, methods and principals of preventing erosion and controlling sediment including establishing vegetation on disturbed and exposed sites.

Specialized Training:

Erosion and Sediment Control Geosynthetics for Soil Stabilization Landslide Rehabilitation Landslide Terrain Management

Featured Project Experience:

Kitimat LNG Plant and Auxiliary Sites Early Earth Works Erosion and Sediment Control, Kitimat, B.C. 2012 – 2016

Large scale early earth works as part of the Kitimat LNG Project surrounded by sensitive freshwater and marine receiving environments. Primarily soil types included fine glacial marine clays prone to erosion and instability located in a geographic location with extreme precipitation events. Large scale stormwater management system including the construction of stormwater retention ponds, Chitosan Enhanced Sand Filtration Systems (CESFS), numerous erosion and sediment control products, revegetation, stability control and reclamation methods.



Primary Roles and Responsibilities:

Lead for erosion and sediment control scopes of work, preparation of erosion control plans, QEP and author of road rehabilitation plans, review and comment on contractor plans and works, permitting support throughout the stormwater effluent discharge permit application, compliance assurance of water quality objectives and oversight of large scale water quality monitoring. Employers: Chevron / Triton Environmental Consultants.

Other representative project experience

Trend Coal Mine Expansion Erosion and Sediment Control Plan, Tumbler Ridge, BC – Site Assessment and preparation of an erosion and sediment control plan for the Phase 4 Trend Coal Mine expansion. Site inspections and onsite advice for the implementation of erosion and sediment control measures including a large scale dewatering system and Chitosan Enhanced Sand Filtration System. Employer: EDI Environmental Consultants.

Bish FSR Upgrade Erosion and Sediment Control Draft Plan, Kitimat, BC – Assessment and preparation of the draft Bish FSR erosion and sediment control plan. Quality assurance of erosion and sediment control measures for the 13 Km resource road upgrade works as part of the Kitimat LNG Project. Employer: Triton Environmental Consultants.

Rio Tinto Utility Corridor Stormwater Pollution Prevention Plan, Kitimat, BC – Site assessments and preparation of a stormwater pollution prevention plan as part of the aluminum smelter utility corridor construction. Employer: EDI Environmental Consultants.

Pelite Road Hwy Upgrade Environmental Monitoring, Red Rock, BC – Inspections and advice for the implementation of erosion and sediment control measures during the Pelite Road Hwy upgrade project. Employer: EDI Environmental Consultants.

Halfway River Hwy Upgrade Erosion and Sediment Control Plan, Fort St John, BC – Assessment and erosion and sediment control plan for the Upper Halfway River Hwy upgrade project. Employer: EDI Environmental Consultants.

River Road flood Protection Erosion and Sediment Control Plan, Prince George, BC. – Site assessments and preparation of an erosion and sediment control plan for the construction of the River Road flood protection and groundwater system project. Employer: EDI Environmental Consultants.

Willow Cane Erosion and Sediment Control Plan, Prince George, BC. – Site assessment and preparation of an erosion and sediment control plan for the Willow Cane Hwy extension project. Employer: EDI Environmental Consultants.

Akie Mainline Extension Erosion and Sediment Control Plan, Tsey Key, BC. - Site assessment and preparation of an erosion and sediment control plan. Onsite advice and oversight of erosion control measures as part of the 8 km Akie Mainline Road extension. Employer: EDI Environmental Consultants.

Benchlands Subdivision Erosion and Sediment Control Plan, Wetland Rehabilitation Plan and Revegetation Plan, Prince George, BC. – Site assessments, water quality monitoring and preparation of erosion and sediment control plans, wetland rehabilitation plan and revegetation plan. Employer: EDI Environmental Consultants.

Lot 1, District Lot 1599 Erosion and Sediment Control Plan, Prince George, BC. – Site assessment and preparation of an erosion and sediment control plan for a subdivision development. Employer: EDI Environmental Consultants.

Nabors Road Erosion and Sediment Control Plan, Tumbler Ridge, BC. - Site Assessment and preparation of an erosion and sediment control plan for the 8 km Nabors Resource Road upgrade project. Employer: EDI Environmental Consultants.

Rainbow FSR Upgrade Erosion and Sediment Control Plan, Ft. St. James, BC. – Site assessment and preparation of an erosion and sediment control plan for proposed 26 Km Rainbow FSR upgrade as part of the proposed Mt. Milligan Mine Project. Employer: EDI Environmental Consultants.

Komie Road Upgrade Erosion Control Inspections and Advice, Ft. Nelson, BC. – Site inspections and advice for 85 km Komie Resource Road upgrade project. Employer: EDI Environmental Consultants.