



An Information Service for Alberta's Environment Industry

The Week Ending December 20th, 2019



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Comments & submissions are welcome!

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# EnviroTech 2020

April 27-29, 2020 Hyatt Regency Calgary

Call for Abstracts

ESAA invites you to submit technical abstracts for the 3rd Annual *EnviroTech*. Abstracts are encouraged in, but not limited to, the following areas:

**Water:** modelling, monitoring, quality, hydraulic fracturing, emerging contaminants, oilsands issues, saline, contamination, industrial re-use, wastewater treatment, risk management, groundwater, surface water, water wells, wetlands, produced water

**Climate Change:** adaptation, alternative energy, carbon credits, energy efficiency, energy from waste, GHG monitoring and sampling, regulatory, sustainability, impacts of climate change, CleanTech

Air: monitoring, modelling, sampling, quality, regulatory, noise management

**Waste:** landfill design, landfill closure, hazardous waste management, emerging contaminants, resource recovery, regulatory

Testing: laboratory testing and sampling, field testing and sampling, monitoring, analysis

Decommissioning: management, safety, hidden dangers, technology

Indigenous: engagement, stewardship, traditional knowledge

Other: topics from areas not listed will also be considered

Abstracts should be no longer that 500 words (not including bio), should include a presenter biography and be submitted as a *Word Document* by no later than midnight on Friday, January 17th, 2020.

For full details, visit: http://www.esaa.org/envirotech/agenda/call-for-abstracts/

**Sponsorship** / **Exhibitor Opportunities:** Sponsorship and Exhibitor information will be released in early December. If you are interested in receiving the information, please contact: <u>lorrine@tl2.ca</u>

Early Bird Registration: Early Bird Registration is now open. Register before January 31st, 2020 and save

20%. Register Now

We look forward to your continued support of ESAA events and look forward to welcoming you to <u>EnviroTech</u> 2020.

#### RECYCLING RED TAPE REDUCED IN ALBERTA

Government is making it easier for the province's recycling industry to set surcharges to better respond to changing market conditions.

The implementation of fee changes to products in the provincial paint, oil, electronics and tire recycling programs previously required a regulatory change, which included cabinet approval.

The new process allows proposed fee changes submitted by the Alberta Recycling Management Authority (ARMA) to be changed through an administrative process – which reduces red tape for the industry – and also removes a previous recycling fee cap on products. Recycling fees are applied to products at the point of sale.

Removing the cap will ensure ARMA has the flexibility to propose fee changes that support the operation and sustainability of Alberta's recycling programs. Government heard from recycling operators that fees need to support operating costs.

Under the new system, ARMA will notify the minister of Environment and Parks of proposed fee changes. Ministerial review and oversight will ensure any fee increases are justified and reflect the true cost of recycling.

Alberta's recycling programs play an important role in our province's environmental stewardship, keeping a large variety (and quantity) of items out of landfills every year.

#### **Quick facts**

- In Alberta, 9.5 million end-of-life TVs and computer products have been recycled since 2004.
- 24 million litres of leftover paint have been recycled since 2008.
- 118 million scrap tires have been recycled since 1992.
- 1.7 billion litres of used oil have been recovered since 1997.

#### HANNA, ALBERTA INTERESTED IN HOSTING BIOMEDICAL WASTE FACILITY

(Source: HazMat Magzine) The Town Council of Hanna, Alberta has expressed interest in the potential of a biomedical waste facility in the municipality. As reported in the <u>Hanna Herald</u>, Council authorized Mayor Chris Warwick to provide a letter of support to GM Pearson regarding the Cactus Corridor Region interest in having the company establish a Biomedical Waste Incinerator Business in the region.

GM Pearson is an Alberta-based company that provides biomedical waste disposal services. The company handles biomedical waste from its removal and transportation to its final, safe disposal. The company provides incineration and autoclaving at its Alberta Environmentally Approved facilities.

GM Pearson had proposed an 8,000 tonne per year biomedical waste incinerator in Beiseker, approximately 100-km west of Hanna, but it was met with fierce public opposition. That plan fell through after the county denied the development permit, saying the site had insufficient infrastructure and water to service the proposed plant.

A human health study commissioned by the company and authored by Dr. Warren Kindzierski, an associate professor of environmental health sciences at the University of Alberta, states that while older studies about older incineration facilities do suggest evidence of health impacts to people who live near waste incinerators, recent studies suggest modern facilities

don't pose the same risk. "Public concern about health risks is not justified for potential exposure to dioxins and furans and other chemical substances that are emitted by modern, well-run incinerators equipped with modern pollution control technologies," the analysis reads.

The town has approximately 2,500 residents and is located in east-central Alberta. If built, the incinerator has the potential ti create 22 full-time jobs, as well as contractor work, and provide tax revenue to the town. The mayor of Hanna, Chris Warrick, noted in a letter to GM Pearson that there are two sites within Special Areas that would be a good fit with the biomedical waste incinerator, as they met the zoning requirement, are in close proximity to major transportation corridors, are near utility infrastructure and regional landfills, and have compatible neighbouring land use.

#### University of Saskatchewan Professor provides insight on oil spill remediation

(Source: HazMat Magazine) A December 9th train derailment near the near Guernsey, Saskatchewan resulted in a spill of an estimated 1.5 million litres of crude oil. According to Canadian Pacific Railway, it will take a number of weeks to clean up the spill. The Canadian Transportation Safety Board stated that 33 oil tank cars and one hopper car derailed. Guernsey is approximately 115 kilometres southeast of Saskatoon.

In an interview with <u>Global News</u>, soil science professor Steven Siciliano noted details about how fast oil was spilling out of tank cars could make a difference. "If it's slowly seeping, what happens is you can kind of imagine a sort of pancakes, so then it doesn't go as deep. Whereas if it's rapidly spilling, it can actually get deeper into the soil. And the deeper in the soil it gets, the harder and harder it can get to remediate," said the professor in the interview. He added the Prairies have glacial till soil, which means it is made up of large clay layers which make it hard for water and air to go through them and making clearing oil very difficult.

Professor Siciliano is the NSERC/FCL Industrial Research Chair in In Situ Remediation and Risk Assessment Director, CREATE Human and Ecological Risk Assessment Program at the University of Saskatchewan. Current and recent research projects undertaken by Professor Siciliano include modelling and assessing the transfer of pollutants from soil to children, development of new soil toxicity test methods and approaches for Antarctic and the Arctic, and assessment of cardiovascular effects of metals and polycyclic aromatic hydrocarbons.

Siciliano added many regions don't have soil that freezes, which means techniques used in other areas won't be as successful at the derailment site. He said many technologies have been developed in places like Oklahoma, California and southern Ontario, but the soil in Western Canada is much different from those places.

In a 2017 <u>article</u> in the Conversation, Professor Siciliano provided insight into various methods for managing oil spills including in-situ remediation. In the article he provides estimates for "dig-and-dump" versus in-situ remediation. He estimated dig-and-dump costing \$150 per cubic yard of soil or more (\$300 per cubic yard) in remote areas whereas the pricetag for in situ remediation can be as little as \$20 to \$80 per cubic yard.

#### CCME CANADIAN WATER QUALITY GUIDELINES FOR THE PROTECTION OF AQUATIC LIFE: MANGANESE

CCME has posted The Canadian water quality guidelines for the protection of aquatic life: manganese

The guideline can be found at <u>CEQG Online</u> and the guideline can be searched by using the Canadian Environmental Quality Guidelines <u>Summary Table</u>. The scientific criteria document and appendices can be found at <u>here.</u>

#### REVISED PLAN FOR NUCLEAR WASTE SITE FAILS TO CONVINCE CRITICS

(Source: CBC News) Efforts to appease critics of a planned nuclear waste facility near the Ottawa River appear to be falling short.

Canadian Nuclear Laboratories (CNL) at Chalk River, Ont., is hoping the revised plan will move it a step closer to obtaining the approvals it needs for a "near surface disposal facility for the disposal of solid, low-level radioactive waste" at nearby Deep River, Ont., about 180 kilometres northwest of Ottawa in Renfrew County.

According to the manager of regulatory approvals for the disposal facility project, the biggest change is the type of waste that would be accepted.

"The inventory is now only low-level radioactive waste," Sandra Faught said. "Back in 2017, there was a small percentage of intermediate-level waste, and that has been eliminated from the proposed inventory."

Remnants of decommissioned buildings on the Chalk River campus, along with contaminated soil and a "small percentage" of low-level nuclear waste from "off-site locations," would be allowed at the waste site, according to the new plan.

CNL, a consortium that includes SNC Lavalin, needs to obtain environmental approvals and meet licensing requirements before it can begin construction on the facility, possibly in 2021.

#### Water worries persist

Critics have called the project a nuclear waste "dump," and worry it could eventually leach into the Ottawa River, just 1.2 kilometres from the planned site.

"Radioactive wastes should never be abandoned right beside major water bodies," said Gordon Edwards, president of the Canadian Coalition for Nuclear Responsibility, in a news release.

Faught notes that in its revisions, CNL's modelling and monitoring has expanded to include an eight-kilometre stretch of the Ottawa River downstream from the Chalk River site.

"We have now gone downstream to ensure that there would be no effects on the Ottawa River as a result of the project. By expanding the regional study area, we've included a greater portion of the Ottawa River," Faught noted.

Ole Hendrickson, a former government research scientist and researcher for the group Concerned Citizens of Renfrew County and Area, said even with the recent changes the proposed facility doesn't comply with International Atomic Energy Agency guidelines.

He said that's because Canadian law doesn't compel CNL to meet those international standards.

"So if the government itself, which is responsible for policy, does not have a policy that says it will meet international standards, that basically leaves Canadian nuclear laboratories free to do whatever they want," Hendrickson said.

The Chalk River nuclear facility is a federal site that contains waste generated during decades of federal research and development, he said.

"The federal government is the owner of the waste, not Canadian Nuclear Laboratories. It's responsible for safe disposal, and it has simply abdicated its responsibility by handing over it to this consortium." In 2014, the federal government gave CNL control over nuclear operations at Chalk River, but the government continues to own the nuclear assets.

# **Upcoming Events**

#### Registration is now open to attend the 2020 AGAT Tech Talks in Alberta!

Join us on January 24 in Calgary and on January 31 in Edmonton to explore the issues that will shape the future of our

industry. Technical programs for these Tech Talk sessions are included below.

Hot Breakfast, Networking Breaks and Lunch are included in the registration. Please contact **Mélissa Hohenberger** at AGAT Laboratories for all inquiries and any special dietary requirements at <a href="hohenberger@agatlabs.com">hohenberger@agatlabs.com</a> or **403.736.2062**.

Registrants may be eligible for Professional Development Credits with AIA, APEGA, ACPA, ASPB & Eco Canada.

Registration Fee: \$180.00 (includes GST)

#### **Calgary Registration**



#### **Edmonton Registration**





#### SMART Remediation Seminar Series 2020 Speakers and Topics

We are very excited to announce the SMART speaker line up for 2020!

#### Registration is now open, sign up and take advantage of the Early Bird pricing.

We have a strong line up this year, based upon a record number of abstracts submitted, and we are pleased to announce the following speakers:

#### Legal, Insurance

- Buying, Selling and/or Redeveloping Commercial Real Estate by George Boire, Marsh
- You Have Been Retained as an Expert Witness in Environmental Litigation Now What?
   by Jacquelyn Stevens, Willms & Shier Environmental Lawyers LLP
- Science on Trial: What Environmental Consultants Need to Know About Giving Evidence in Court by Jessica Boily, Gowling WLG (Canada) LLP
- The New Reliance on Criminal Prosecutions to Enforce Environmental
   Compliance by Mark Youden, Josh Jantzi and Wally Braul, Gowling WLG (Canada) LLP
- Current Environmental / Legal Intersections To Be Aware Of by Michael Hebert, Beament Hebert Nicholson LLP
- Environmental Consultants do Get Prosecuted and Sued! by Richard Butler, Willms & Shier Environmental Lawyers LLP

#### **Vapour Intrusion**

 Waterloo Membrane Sampler: Passive Sampling in Remediation Projects; Soil Gas, Outdoor Air and Implications for Vapor Intrusion Studies by Brent Pautler, SiREM, Geosyntec, SepSolve, MECP  A New Model for Sub-Slab Mitigation for Vapour Intrusion by Paul Nicholson, Geosyntec Consultants

#### Remediation Technologies and Approaches

- In Situ Chemical Reduction for Remediation of Soil Containing Chlorinated Pesticides and Herbicides by Alan Seech or Brant Smith, Peroxychem, Chemco
- Surfactant Enhanced Extraction (SEE) at LNAPL and DNAPL Impacted Sites Pilot to Full Scale by George Ivey, Ivey International Inc.
- Benefits of Combining In Situ Chemical Oxidation with In Situ Stabilization: Synergies and Solutions for Complex Sites by Jean Paré, Peroxychem, Chemco
- Case Study: When In-Situ Technologies Fail by Kevin French, Vertex Environmental Inc.
- Case Study: New Delivery Method to Inject Remedial Amendments into a Difficult Aquifer by Gerren Feeney and Nathan Lichti, Premier Environmental Services and Vertex Environmental Inc.
- Enhanced Anaerobic Bioremediation Achieves Cost Effective Closure for a PHC impacted Site by Ryan Riess, Pinter & Associates Ltd
- High value added to waste product: Hydrochar as a novel bio-augmenting amendment for bio- and phytoremediation applications by Victoria Collins, NAIT Industry Solutions

#### Government

- Sterilants Program by Bonnie Drozdowski, InnoTech Alberta
- Federal Contaminated Sites Action Plan (FCSAP) and the separate Northern Abandoned Mines Reclamation Program (NAMRP) by Clayton Truax, Public Services and Procurement Canada

#### **Real Estate**

Environmental Risk Management in Real Estate by Albert Ho, FCR Management Services

#### **Waterfront Toronto**

- Waterfront Toronto Risk Management Measures for the New River Valley by David Bertrand, Geosyntec Consultants International Inc. and Waterfront Toronto
- Approach Applied and Lessons Learned in Optimizing Soil Reuse for Large Redevelopment Projects by Krista Barfoot, Stantec and Waterfront Toronto

Abstract summaries for the presentations are being posted to the SMART website. Be sure to check them out at <a href="https://www.smartremediation.com">www.smartremediation.com</a>.

To view which presentations will be delivered at each location and to register, click the city below:

<u>Toronto</u> - January 23, 2020 <u>Ottawa</u> - February 6, 2020 <u>Edmonton</u> - March 11, 2020 <u>Calgary</u> - March 12, 2020

#### BEST 2020: Call for Abstracts

May 6-8, 2020 - Whistler

The British Columbia Environment Industry Association invites submissions of papers and technical presentations for its seventh annual Bettering Environmental Stewardship and Technology Conference (BEST 2020) to be held in beautiful Whistler, BC, May 6 to 8, 2020. For more information, visit: https://bceia.com/best/



## **Industry Positions Openings**

For more information visit ESAA's Job Board under the news section of www.esaa.org

#### **Junior Environmental Consultant**



Term: Full-Time

Number of Positions: 1

Application Deadline: December 27, 2019

Job Start Date: ASAP

Job Location: Sherwood Park

North Shore Environmental Consultants Inc. is a progressive environmental company that specializes in providing environmental management and consulting services. Since our inception in 2002, North Shore has offered cost-efficient and effective solutions to the complex environmental challenges faced by today's industries. We offer our employees exceptional career development opportunities and an excellent team-oriented working environment.

North Shore is currently seeking a **Junior Environmental Consultant** for our **Reclamation and Remediation Team**, based out of **Sherwood Park, Alberta**.

#### Key Responsibilities:

- Assist with the coordination and execution of Phase 1, Phase 2, and Phase 3 Environmental Site Assessments through to reclamation certification
- Assist with the development and execution of reclamation, and remediation projects in central and northern Alberta as well as northeastern British Columbia
- Complete vegetation assessments and weed management activities in forested, tame pasture, and cropland settings
- Assist with the coordination and execution of Detailed Site Assessments
- Assist during initial spill response projects as required
- Prepare technical reports
- Provide assistance to senior staff in the office, as required
- Promote our company's vision, mission, and principles

#### **Qualifications:**

- 1 3 years of consulting experience related to remediation, reclamation, or environmental science
- Good understanding of upstream oil and gas regulatory requirements, particularly reclamation criteria
- Experience with vegetation and weed identification
- Willingness to travel and be in the field for extended periods of time
- Technical Diploma or University Degree in environmental science or related discipline
- Eligibility, to obtain professional designation with an organization such as the Alberta Institute of Agrologists
- Proficient with Microsoft Office Suite and database entry
- Valid driver's license

- Good physical health and ability to work outdoors in varying conditions
- Willingness to work within a team environment
- Highly organized and have the ability to prioritize multiple tasks

North Shore Environmental Consultants Inc. supports a shared commitment to a Representative Workforce that is respectful and reflective of all staff and clients. North Shore strives to build diversity among our staff to increase our ability to provide high-quality service to our diverse client base.

#### **How to Apply Details:**

Please submit your resume via email to careers@northshoreenv.com.

We thank all applicants for their interest; however, only those considered for an interview will be contacted. For more information about North Shore, please visit our website at <a href="https://www.northshoreenv.com">www.northshoreenv.com</a>. This position will remain open until a suitable candidate is found.

#### Intermediate Environmental Consultant

Term: Full-Time

Number of Positions: 1

Application Deadline: December 27, 2019

Job Start Date: ASAP

Job Location: Sherwood Park



North Shore Environmental Consultants Inc. is an employee-owned, progressive environmental company that specializes in providing environmental management and consulting services. Since our inception in 2002, North Shore has grown and succeeded throughout western and northern Canada by providing cost-efficient and effective solutions to the complex environmental challenges faced by today's industries. By keeping in line with our core values as well as maintaining focus on both our employee and industry relationships, North Shore will continue to be a leader amongst its peers.

We offer our employees a team-based working environment with flexible working arrangements, attractive compensation and field work incentives, performance-based bonus programs, a comprehensive health benefit package, numerous paid perks, and the opportunity to participate in our Employee Share Ownership Program (ESOP). North Shore promotes and encourages its employees to continue their career advancement through continuous education, competency development, and memberships within recognized professional organizations. Therefore, North Shore provides generous support to its employees through paid training and educational programs, reimbursement of annual professional fees, and ensuring regular attendance opportunities at various conferences and industry events.

North Shore is currently seeking an Intermediate Environmental Consultant for our Reclamation and Remediation Team, based out of Sherwood Park, Alberta.

#### **Key Responsibilities:**

- Developing and implementing reclamation and remediation plans on abandoned upstream oil and gas wellsites
- Overseeing the completion of remediation and reclamation projects. Coordinating and supervising heavy equipment and other third party contractors as required
- Assisting with the oversight of client budgets, tracking project statuses, and making recommendations to progress sites towards regulatory closure
- Coordinate and execute Phase 1 Environmental Site Assessment (ESA) site visits, vegetation assessments, Phase 2 ESA's, and Detailed Site Assessments (DSA's)
- Collaborate with members of the Technical Resource Group to develop site-specific remediation guidelines
- Develop and maintain relationships with landowners and other stakeholders
- Work closely with interdisciplinary groups (Technical Resource Group, Data Management Group, Spill Group, Biophysical Group, and Vegetation Group) to successfully execute client projects and programs
- Compiling various technical documents including DSA reports, Phase 2 ESA reports, remediation reports, and regulatory closure applications
- · Provide mentorship and training to junior staff
- Provide support to senior staff as required

#### Qualifications:

- 3 5 years of consulting experience related to remediation, reclamation, or environmental science
- Proficient at completing Detailed Site Assessments using the 2010 Reclamation Criteria for Wellsites and Associated Facilities
- Familiar with the Alberta Tier 1 and 2 Soil and Groundwater Remediation Guidelines
- Good understanding of upstream oil and gas regulatory requirements in Alberta, as well as British Columbia and Saskatchewan, will be considered an asset
- Knowledge and experience working with various types of farming and heavy equipment
- Excellent vegetation and weed identification skills in both forested and cultivated landscapes
- Willingness to travel and be in the field as dictated by project requirements
- · Technical Diploma or University Degree in environmental science or related discipline
- Eligibility, to obtain professional designation with an organization such as the Alberta Institute of Agrologists
- Excellent communication, writing, and problem-solving skills
- Proficient with Microsoft Office Suite and database entry
- Valid driver's license
- Good physical health and ability to work outdoors in varying conditions
- · Willingness to work within a team environment
- Highly organized and have the ability to prioritize multiple tasks

North Shore Environmental Consultants Inc. supports a shared commitment to a Representative Workforce that is respectful and reflective of all staff and clients. North Shore strives to build diversity among our staff to increase our ability to provide high-quality service to our diverse client base.

#### **How to Apply Details:**

Please submit your resume via email to careers@northshoreenv.com.

We thank all applicants for their interest; however, only those considered for an interview will be contacted. For more information about North Shore, please visit our website at <a href="https://www.northshoreenv.com">www.northshoreenv.com</a>. This position will remain open until a suitable candidate is found.

### Senior Project Manager

Term: Full-Time

Number of Positions: 1

Application Deadline: December 23, 2019

Job Location: Calgary

TERRALOGIX
SOLUTIONS INC.

Company Overview: TerraLogix Solutions Inc. (Terralogix) was founded in 2002 and since its inception has specialized in Environmental Management in the Upstream Oil and Gas Industry. TerraLogix is built on providing excellent environmental management services while still providing cost effective environmental solutions for the Upstream Oil and Gas Industry. We are experienced in the development and coordination of environmental assessment programs, environmental project management and on-site project supervision. Currently TerraLogix's offices are located in Calgary, Alberta and Edmonton, Alberta.

Job Description: An exciting opportunity exists for a Senior Environmental Project Manager in our Calgary office.

The successful candidate will oversee specific client's remediation projects and be involved in various aspects of a variety of projects.

Reporting to the Calgary Operations Manager and/or a Program Manager, the Senior Project Manager will:

 Oversee and provide mentorship of junior to intermediate staff with respect to the completion of field work and reports for specific Soil and Groundwater Monitoring Programs, Phase I, II and III ESAs for the oil & gas industry. Minimal field work maybe required for specialty projects, safety audits and staff training.

- Complete data gap analysis of internal or third party reporting to determine applicable remedial options.
- The ability to evaluate and complete Tier 2 assessments with respect to pathway exclusions and modifications is a requirement. Experience with the Subsoil Salinty Tool is an asset.
- Experience working with Saskatchewan and British Columbia regulations and criteria is an asset.
- Both preparation and/or technical review of reports related to Upstream Oil and Gas remedial projects.
- Budget development for specific projects, tracking of project status and cost control for clients.
- Contractor Management.
- Liaise with clients, regulatory and environmental agencies.
- Communicate regulatory changes or updates to staff and employees.
- Understand and provide leadership with respect to TerraLogix's and client's Health and Safety Policies and OH&S procedures.

#### Qualifications:

The successful candidate will possess the following skills and attributes:

- Bachelor of Science degree or Masters of Science Degree in Environmental Science, Environmental Engineering, Geology or other relevant Environmental Program along with a minimum of 10 years of experience. In addition, candidate should have applicable professional designation.
- Experience in soil and groundwater contaminated sites monitoring and remediation programs.
- Strong familiarity with ERCB Directives 50 and 58, Alberta Environment Reclamation Criteria (Green, White and Federal lands), Alberta Tier 1 and 2 Guidelines, CCME guidelines, Saskatchewan Environmental Quality Guidelines, and BC Contaminated Sites Regulations.
- Possess strong interpersonal skills, communication skills and technical writing skills and be able to work as a member of a multi-disciplinary team and provide leadership.

#### Compensation:

An attractive compensation package, consisting of an hourly wage with overtime, full health and dental benefits, RRSP contribution plan and bonus incentives, awaits the successful candidate.

To find out more about Terralogix Solutions Inc. please visit our website at www.terralogix.ca

#### **How to Apply Details:**

To apply for this position, please email your cover letter and resume to <a href="mailto:resumes@terralogix.ca">resumes@terralogix.ca</a> and clearly indicate which position you are applying for in the title bar of the email. Only candidates selected for an interview will be contacted.

resumes@terralogix.ca.