

Weekly NEWS



An Information Service for Alberta's Environment Industry

The Week Ending March 6th, 2020



EnviroTech

EnviroTech 2020

April 27-29, 2020

Hyatt Regency Calgary

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Comments & submissions are welcome!

Please submit your announcement via e-mail to:
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2 Exhibit Spaces Remaining

Only two (2) exhibit spaces are still available for **EnviroTech 2020**. **EnviroTech 2020** is expected to have 270+ delegates and 36 exhibitors and feature a program with 42 technical talks and 3 keynotes.

EnviroTech 2020 features an all new floor plan and additional exhibit space. For the new floor plan and a list of current exhibitors, visit:

<https://www.esaa.org/envirotech/exhibitors/>

Exhibit space includes:

- One or two booth worker passes (depending on booth package chosen) which provide access to the trade show, all meals, receptions, and coffee/networking breaks. Does not include access to the technical sessions.
- 10' wide x 8' deep booth space
- 3' high side wall and 8' high back wall drape
- 6' table
- 2 padded chairs
- One 110v power outlet

If you are interested in receiving the exhibitor brochure, please contact: lorraine@tl2.ca

In addition, a number of sponsorship opportunities remain, including:

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-
- **Ruby**
- **Sapphire**

Check out the current list of sponsors at: <https://www.esaa.org/envirotech/sponsors/>

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ALBERTA OFFERS \$100-MILLION LOAN TO ACCELERATE CLEANUP OF ORPHAN WELLS

(Source: Globe and Mail) The industry-funded body responsible for cleaning up Alberta's abandoned oil and gas wells is getting another \$100-million loan from the provincial government, bringing the total taxpayer backstop of the Orphan Well Association (OWA) to \$335-million.

The association said the latest loan would help it double its workload to clean up 1,000 extra wells on private land this year, mostly in the southern part of the province. The government said that will create 500 jobs in a sector that has routinely shed employment since 2015, ever since the price of oil tanked and sector investment fled Canada.

The problem of orphan wells has plagued Alberta. When companies go bankrupt, any wells not sold by their trustee will end up under the control of the OWA.

Around 6,500 orphaned sites currently dot the province, waiting for the OWA to clean them up and return the land to predrilling condition. In five years, the association's total expenditures on decommissioning wells and pipelines and reclaiming sites jumped to \$94.4-million from \$16.6-million.

Alberta Premier Jason Kenney and Energy Minister Sonya Savage formally announced the interest-free \$100-million loan Monday at a well-servicing company outside Edmonton, although the cash was included in last week's budget.

It comes less than three years after Alberta's then-NDP government handed over \$235-million under a similar plan to accelerate reclamation of abandoned oil and gas wells, create 1,650 jobs and reduce the environmental risks of abandoned wells.

That loan had a 10-year payback period, which the industry planned to cover by doubling the levy it pays to the OWA. Energy officials told The Globe and Mail the association paid back \$5.5-million in 2019, with \$18-million scheduled for this year and \$30.1-million for 2021.

Lars DePauw, executive director of the OWA, said Monday the number of wells the association cleans up this year will be "a dramatic increase" that will be close to the number of wells reclaimed over the past two years.

Ms. Savage said Monday the loan supports Alberta's polluter-pays principle – which makes oil and gas companies responsible for cleaning up their messes – and will significantly decrease the number of orphan wells across the province.

It's just one of the tactics the United Conservative government has deployed to try and turn the tide on growing oil and gas liabilities.

Story continues below advertisement

Ms. Savage said her government will soon unveil a suite of policies to address the entire life-cycle of wells, from licensing to operations and production, through to abandonment, reclamation and post-closure of sites.

She said the new rules will improve OWA operations, giving it more flexibility in the ownership, control, sale and management of its inventory of orphaned wells so it can be more efficient.

NORTHERN MINE CLEANUPS CONTINUE; SASKATCHEWAN, FEDS STILL DIVIDED ON COST

(Source: Star Phoenix) Saskatchewan's first uranium discovery was staked a century ago, but it took almost three decades before prospectors gave up attempting to extract iron, copper and gold from the site and turned their attention to its last remaining mineral resource.

Named for the former Royal North-West Mounted Police officer who re-staked the site on the north shore of Lake Athabasca in 1929, the Nicholson mine underwent development in 1949 and sent out its first uranium shipments five years later.

Production halted in 1956 after Consolidated Nicholson Mines Ltd.'s supply contract ended in the face of falling prices. Subsequent efforts to resume mining failed and the remote site was abandoned with little cleanup effort a few years later.

"By 1959, the Nicholson ore body had been essentially depleted, however (it) played its role in helping Canada become one of the largest uranium producers in the world," Laurier Schramm and Patty Ogilvie-Evans wrote in their 2018 book about the site.

Today, Nicholson is one of more than 30 abandoned mine sites scattered across the Athabasca Basin, the uranium-rich portion of the Canadian Shield that encompasses much of northern Saskatchewan and extends westward into Alberta.

In 2006, the federal and provincial governments signed an agreement to clean up the sites, notably the massive Gunnar mine southwest of [Uranium City](#). While the division of costs is now the subject of a major court battle, work on the sites continues.

This summer, with the remediation of Gunnar entering its final phase (estimated to take three years), Saskatchewan Research Council (SRC) crews will begin assessing the Nicholson site, which is among the largest and most remote "satellite" uranium sites.

Besides abandoned structures, machinery and mine works, the site is known to contain 90,000 cubic metres of waste rock.

"We're in that stage of going in and trying to discern what we're dealing with and starting to frame the problem," SRC remediation manager Ian Wilson said of the mine, which apart from shaft closures remained largely untouched since it was abandoned.

"Once we get through that process, we use that information from the assessment stage to start to develop an action plan or a risk management plan," Wilson said of the site, which is accessible only by boat in summer or an ice road in winter.

The SRC has "substantially completed" work on between 15 and 18 of the satellite sites; the former Lorado mill site, one of the largest abandoned facilities, has been completely remediated and Gunnar, the largest, will be a hive of activity again this summer.

Gunnar is thought to be [the single largest environmental reclamation project in Saskatchewan history](#).

Wilson said he expects the entire project will be complete in another decade or so, a timeline made somewhat variable by the challenges of working in the province's north, where remoteness and weather can cause all kinds of problems.

"It's always good, it's always a weight off your shoulders," Wilson said of the SRC's progress so far, adding that the Crown corporation has not lost a single day's work due to injury since the project began more than a decade ago.

"I'm also pleased with the amount of engagement and capacity-building that we've been able to do," he said, referring to efforts to work with northern communities and [employ local people and Indigenous-owned companies](#).

While work is expected to begin again late this winter, the federal and [provincial governments remain divided](#) over which level of government should shoulder the cost of the massively over-budget project, which has swollen to an estimated \$280 million.

In 2006, both governments agreed to evenly divide the cost, which at the time was estimated at \$24.6 million. Last year, Saskatchewan filed a lawsuit with the aim of getting a judge to force Ottawa to pay more than its original \$12.3-million share.

No court date has been set for the hearing.

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GOVERNMENT OF CANADA PARTNERS WITH TŁİCHŦ FIRST NATION TO PROTECT CULTURALLY IMPORTANT LAND IN THE NORTHWEST TERRITORIES

March 6, 2020 – Ottawa, Ontario. Conserving Canada’s natural heritage connects us all—and this is especially true for Indigenous communities in the North. For millennia, First Nations communities have thrived culturally and spiritually by living off the land and caring for it. That’s why the Government of Canada is helping to protect the land and water that play such a fundamental role in TłıchŦ heritage and identity.

Today, the Government of Canada announced its support for an important Indigenous conservation initiative in the Northwest Territories. Through the Canada Nature Fund, the Government is contributing \$2 million to help conserve more than 22,000 km² of land between Great Slave Lake and Great Bear Lake. Once complete, these two protected spaces—Gowhadö Yek’e t’ii k’e and TłıchŦ Nawoo Ké Dét’ahot’ii —will be approximately twice the size of Cape Breton.

These lands are a fundamental part of the TłıchŦ heritage and identity. They include the Jdaà Trail, an ancestral trail that follows waterways and watershed areas. The Trail includes many of the best sites for traditional activities including hunting, trapping, fishing, and collecting plants used for medicine, and it occupies a central place in TłıchŦ history and culture.

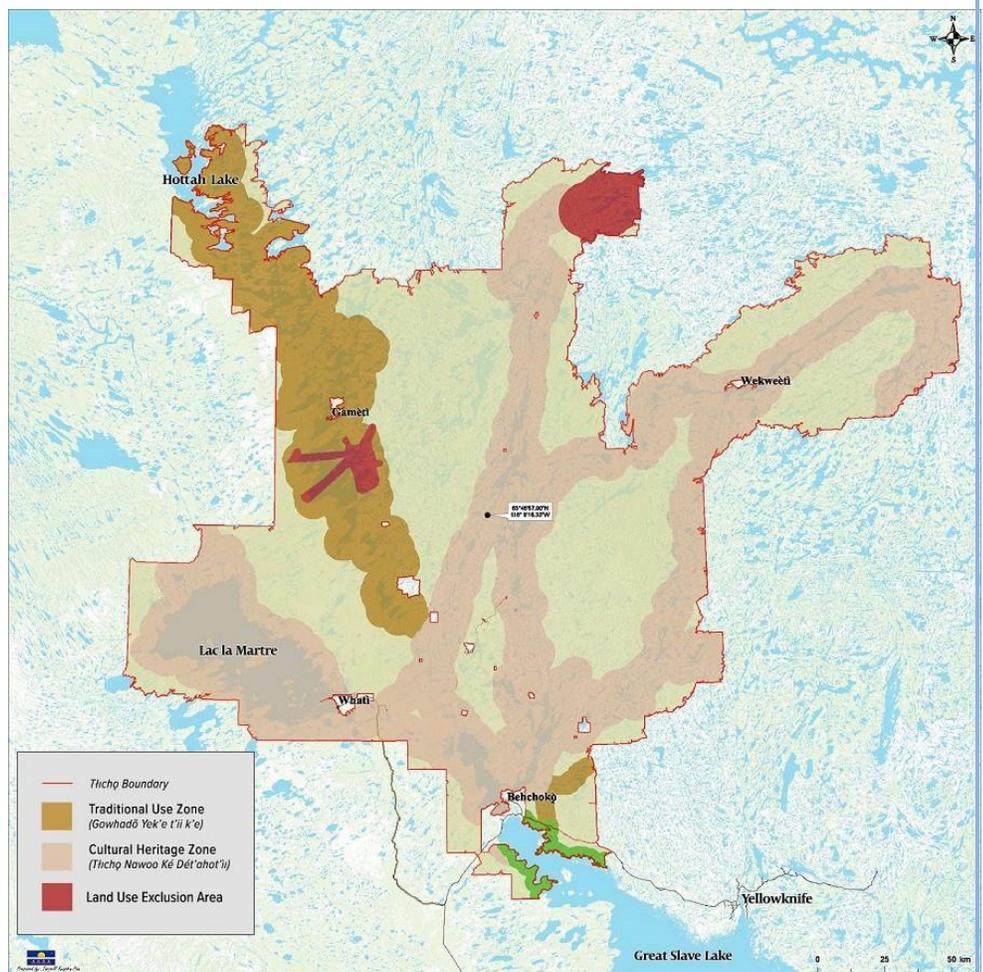
The \$2 million investment will assist the TłıchŦ Government in

- continuing to promote and protect TłıchŦ culture and way of life
- supporting the establishment of conserved areas
- contributing significantly to the Government of Canada’s biodiversity conservation targets through Indigenous-led conservation efforts
- supporting research into climate change

This conservation project represents reconciliation in action, as the TłıchŦ Government and the Government of Canada are committing to recognizing the landscape as an “other effective area-based conservation measure” over the next three years. Maintaining this culturally significant land using Indigenous traditional knowledge will also help preserve and protect habitat for wildlife, including 16 species at risk like the boreal caribou, and will preserve known migration corridors for barren-ground caribou.

The Government of Canada is working with partners to double the amount of protected nature in Canada’s lands and oceans by the end of 2020 and now has committed to going even further. The Government will bring forward a plan to conserve 25 percent of Canada’s lands and 25 percent of its oceans by 2025. The investment announced today will help Canada make progress on our 2025 target.

Map of TłıchŦ Lands, indicating the Traditional Use Zone and the Cultural Heritage Zone of the Other Effective Area-based Conservation Measure.



Quick facts

- The Canada Nature Fund is a key part of the historic Nature Legacy investment of \$1.3 billion announced in Budget 2018. The Canada Nature Fund enables the work of Canadians across the country to protect more of the nature we love and the wildlife that depend on it. Partner organizations will share in the costs for every project we support with those funds.
- Up to \$175 million for the Target 1 Challenge initiative will support ongoing progress toward achieving Canada's Target 1 goal of conserving 17 percent of our land and fresh water by the end of 2020.
- An area of land can be recognized as an other effective area-based conservation measure if it serves another primary objective but is governed and managed in a way that also conserves biodiversity.
- Canada's network of protected and conserved areas is important to mitigate the impacts of climate change by protecting and restoring healthy, resilient ecosystems and contributing to the recovery of species at risk. Intact forests and wetlands also capture and store carbon dioxide and can help protect communities from the impacts of climate change.
- Canada is making Indigenous leadership an important part of conservation efforts. Up to 27 Indigenous protected and conserved areas are expected to be established under the Canada Nature Fund's Target 1 Challenge. Further, through Budget 2017, the Government announced support for Indigenous guardians programs, which support Indigenous conservation through on-the-ground stewardship initiatives.

E.P.A. UPDATES PLAN TO LIMIT SCIENCE USED IN ENVIRONMENTAL RULES

(Source: New York Times) The Trump administration has formally revised a proposal that would significantly restrict the type of research that can be used to draft environmental and public health regulations, a measure that experts say amounts to one of the government's most far-reaching restrictions on science.

The revisions made public Tuesday evening mean the Environmental Protection Agency would give preference to studies in which all underlying data is publicly available. That slightly relaxed restrictions in an earlier draft that would have flatly excluded any research that did not offer up its raw data, even if that data included medical information protected by privacy laws or confidentiality agreements.

Even with the latest changes, scientists warned that the regulation would let the federal government dismiss or downplay some of the most important environmental research of the past decades. That includes research that definitively linked air pollution to premature deaths but relied on the personal health information of thousands of study subjects who had been guaranteed confidentiality.

The proposal is one of dozens of environmental protection rollbacks that the Trump administration is scrambling to finalize before the presidential election in November. It caps more than three years of efforts to dilute scientific research, especially on climate change and air pollution, which has underpinned rules that the fossil fuel industry calls burdensome.

Andrew R. Wheeler, the administrator of the E.P.A., said the proposed regulation was an effort to bring greater transparency to government research.

"I am committed to ensuring that the science underlying E.P.A.'s actions is of the highest quality," he said in a statement. Once the rule is finalized, he added, it "will ensure that all pivotal studies underpinning significant regulatory actions at the E.P.A., regardless of their source, are available for transparent review by qualified scientists."

Under the new version of the plan, the E.P.A., when writing or revising environmental regulations, would have to give greater weight to research in which the underlying data are available to be retested.

Critics of the proposal, including the American Association for the Advancement of Science, the world's largest general scientific society, argued that the administration's real goal was to raise suspicions about the bedrock studies that helped establish modern regulations governing clean air and water.

Seminal research that has definitively linked polluted air to premature deaths, like a 1993 Harvard University report known as the Six Cities study, often persuaded participants to offer personal health information and other private data by extending strict confidentiality.

Environmental activists and former Obama administration leaders said the new rule would make it easier for the E.P.A. to weaken or repeal existing health regulations because studies that had previously been used to show the benefits might now be discarded or assigned less importance.

Gina McCarthy, who led the E.P.A. under former President Barack Obama, said the Trump administration already was facing scrutiny over its handling of the coronavirus, and she criticized the agency for moving forward with the new rule in the middle of a public health crisis.

“Now is not the time to play games with critical medical research that underpins every rule designed to protect us from harmful pollution in our air and in our water,” she said. “The American people have the right to know the truth about threats to our health, and the truth about our future in the face of the climate crisis.”

Scott Pruitt, President Trump’s first E.P.A. administrator, [initiated the plan in 2018](#), and it faced an avalanche of criticism from the scientific community. When Mr. Wheeler succeeded him in 2019, he indicated that the agency intended to move forward with the plan but would take some time to review the public’s concerns.

In November, [a draft supplement](#) offering additions and clarifications to the original rule was obtained by The New York Times. Rather than responding to the critics, the E.P.A. appeared to be widening the scope of the plan by allowing its limits on research to be applied retroactively to reverse existing air and water regulations.

The version [made public on Tuesday](#) appeared to drop the retroactivity element and said the rule would only apply to studies “that are potentially pivotal to E.P.A.’s decisions or influential scientific information that are developed in the future.”

But several critics of the plan noted that many existing regulations come up for renewal or reconsideration every few years, so even longstanding rules could be subject to the restrictions. Andrew Rosenberg, director of the Center for Science and Democracy at the Union of Concerned Scientists, said benchmark science like Harvard’s Six Cities air pollution study might soon be deemed inadmissible.

“They’re putting in nonscientific criteria to decide what science the agency can use,” Mr. Rosenberg said. “Now the most important thing is whether the data is public, not the strength of the scientific evidence.”

The fresh revisions give the E.P.A. administrator the discretion to consider a study that has not made all its personnel and other data public. But Mr. Rosenberg said that would only take scientific decision-making out of the hands of scientists and hand it to a politically appointed administrator.

“It makes it easier for industry in most cases to say, ‘There’s too much uncertainty; you shouldn’t move forward,’” he said.

In January an advisory panel of Mr. Trump and Mr. Wheeler’s own scientists [criticized the so-called transparency proposal](#), saying the E.P.A. “has not fully identified the problem to be addressed” by the new rule. When the plan is inevitably challenged in court, legal experts said, a judge was also likely to ask what health problem the agency sought to solve by enacting the regulation.

Stanley Young, a Heartland Institute adviser whose research has questioned the links between particulate matter pollution and premature death, called the latest E.P.A. plan a “reasonable compromise” and said regulations themselves could harm public health by straining the economy.

“It’s well established over hundreds of years that the rich generally live longer than the poor,” said Mr. Young, a retired statistician who is also a member of the E.P.A.’s Clean Air Scientific Advisory Committee. “To the extent that resources are taken from individuals for a purported group improvement, there’s a trade-off between the money you leave with the people and the money you take to execute government policy.”

REMEDIAION TECHNOLOGY NEWS AND RESOURCES

(The following are selected items from the US EPA's Tech Direct - <http://clu-in.org/techdirect/>)

Upcoming Live Internet Seminars

ITRC Geospatial Analysis for Optimization at Environmental Sites - March 19, 2020, 1:00PM-3:15PM EDT (17:00-19:15 GMT). The purpose of ITRC's Geospatial Analysis for Optimization at Environmental Sites (GRO-1) guidance document and this associated training is to explain, educate, and train state regulators and other practitioners in understanding and using geospatial analyses to evaluate optimization opportunities at environmental sites. With the ITRC GRO-1 web-based guidance document and this associated training class, project managers will be able to: evaluate available data and site needs to determine if geospatial analyses are appropriate for a given site; for a project and specific life-cycle stage, identify optimization questions where geospatial methods can contribute to better decision making; for a project and optimization question(s), select appropriate geospatial method(s) and software using the geospatial analysis work flow, tables and flow charts in the guidance document; with geospatial analyses results (note: some geospatial analyses may be performed by the project manager, but many geospatial analyses will be performed by technical experts), explain what the results mean and appropriately apply in decision making; and use the project manager's tool box, interactive flow charts for choosing geospatial methods and review checklist to use geospatial analyses confidently in decision making. For more information and to register, see <http://www.itrcweb.org> or <https://clu-in.org/live>.

ITRC TPH Risk Evaluation at Petroleum-Contaminated Sites - March 31, 2020, 1:00PM-3:15PM EDT (17:00-19:15 GMT). The basis for this training course is the ITRC guidance: TPH Risk Evaluation at Petroleum-Contaminated Sites (TPHRisk-1, 2018). The guidance builds on long-standing and current research and experience, and presents the current science for evaluating TPH risk at petroleum-contaminated sites. As a participant in this training you should learn to: recognize the ITRC document as a go-to resource for evaluating TPH risk at petroleum-contaminated sites, recognize how TPH-impacted media interacts with the environment and changes over time, select appropriate analytic method(s) to match site objectives, and apply the decision framework to determine when a site-specific target level may be more appropriate than a generic screening level for TPH. For more information and to register, see <https://www.itrcweb.org> or <https://clu-in.org/live>.

New Documents and Web Resources

ITRC Optimizing Injection Strategies and In Situ Remediation Performance. There are many types of in situ remediation amendments and emplacement technologies, and each site provides unique challenges that can limit the effectiveness of the in situ remedy. The importance of proactive planning, including using processes such as site characterization analysis, bench- and field-testing and/or design optimization testing, and performance evaluation, cannot be overemphasized. Many challenges encountered during in situ remediation can be overcome with a thorough understanding of the contaminant phase and distribution, site hydrogeology and biogeochemistry, and the amendment's physical and chemical characteristics. This comprehensive guidance is intended to assist a broad audience with overcoming common in situ remediation challenges, covering major topics such as remedial design, implementation, and monitoring. View and use at <https://ois-isrp-1.itrcweb.org>.

Technology Innovation News Survey Corner. The Technology Innovation News Survey contains market/commercialization information; reports on demonstrations, feasibility studies and research; and other news relevant to the hazardous waste community interested in technology development. Recent issues, complete archives, and subscription information is available at <https://clu-in.org/products/tins/>. The following resources were included in recent issues:

- Season Two In Situ Treatment Completion Report Lockheed Martin Middle River Complex 2323 Eastern Boulevard Middle River, Maryland
- Statistical Software ProUCL 5.1.00 for Environmental Applications for Data Sets With and Without Nondetect Observations

EUGRIS Corner. New Documents on EUGRIS, the platform for European contaminated soil and water information. More than 7 resources, events, projects and news items were added to EUGRIS in February 2020. These can be viewed at <http://www.eugris.info/whatsnew.asp>. Then select the appropriate month and year for the updates in which you are interested.

Upcoming Events



SMART Remediation 2020 in Alberta

Smart Methods in Advanced Remediation Technologies (SMART)

is a series of technical learning seminars for environmental professionals. We bring the North American environmental community together to enhance our collective understanding of cutting edge characterization and remediation technologies. Our seminars are full of technical information on how-to's, latest tips 'n tricks and up-to-date techniques.

We have a great line up of speakers once again for SMART Edmonton and Calgary. This year we are also bringing back the Demonstration Corner. **Want to know specifically what we are presenting....** All abstract summaries and speaker bios are listed on the [website](#) for the upcoming events in Edmonton and Calgary.

SPACE IS LIMITED!

Includes Breakfast & Conference: 7:30 - 3:00 pm.
with Lunch & Networking Opportunities

Early Bird Pricing of \$169 in effect until February 14, 2020.

March 11, 2020 – Edmonton
Fairmont Hotel Macdonald
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Edmonton, AB T5J 0N6

March 12, 2020 – Calgary
Sheraton Suites Calgary Eau Claire
255 Barclay Parade SW
Calgary, AB T2P 5C2

 REGISTER TODAY!

TRAINING - ALBERTA TIER 2 SOIL AND GROUNDWATER REMEDIATION GUIDELINES

Interactive, hands-on training workshops on the use of the *Alberta Tier 2 Soil and Groundwater Remediation Guidelines* will be held on the following dates:

March 31 - April 1, 2020 - Edmonton
April 2-3, 2020 - Calgary

To register, please go to <http://www.mems.ca/2020-tier-2-training-spring-course-dates/>

The workshops will be taught by Millennium EMS Solutions Ltd. Enrolment is limited due to the hands-on nature of the workshops.

Should you be interested but unable to attend on those dates, the link also includes contact information to indicate your interest in future sessions.

BEST PRACTICES FOR SITE CHARACTERIZATION THROUGHOUT THE REMEDIATION PROCESS ATLANTA, GA, MARCH 24-26, 2020.

This training course is based on best management practices (BMP) implemented by U.S. EPA, partnership organizations, federal and state partners, and consultants. Participants will learn how to streamline projects in a legal,

technically sound, and cost-effective manner. By taking the course, participants achieve the following objectives: integrate best practices into traditional project activities, effectively collect and communicate critical project information, design dynamic work strategies, recognize and overcome the challenges presented while implementing a dynamic work strategy, and use BMPs to support all phases of the environmental cleanup life cycle. For more information and to register, see <https://www.trainex.org/BPSCR>.

Industry Positions Openings



As a benefit of ESAA Membership, ESAA Members can now post position openings on our website at no charge. Position opening ads also will appear in the newsletter at no charge. For full details visit: <https://www.esaa.org/news/job-board/>

Note: You must still complete the advertising form. After completing the order form, you will receive an email with a link to post your position.

Non-Members are welcome to advertise as well for a nominal charge. Visit [advertising form](#) to place your order.

Job Title	Organization	Application Deadline	Term	Details
3544 - Business Lead (Calgary, Alberta)	SLR Consulting (Canada) Ltd.	2020-03-07	Full-Time	more
3544B - Project Manager (Lloydminster, Alberta)	SLR Consulting (Canada) Ltd.	2020-03-07	Full-Time	more
Waste Management Specialist	GHD Limited	2020-03-12	Full-Time	more
Environmental Engineer Project Manager - Contaminated Sites & Remediation	GHD Limited	2020-03-12	Full-Time	more
Ecology & EIA Lead	GHD Limited	2020-03-12	Full-Time	more
Hydrogeologist	North Shore Environmental Consultants	2020-03-12	Full-Time	more
3544C - Environmental Practitioner II	SLR Consulting (Canada) Ltd.	2020-03-14		more
Environmental Assistant	Paragon Soil and Environmental Consulting	2020-03-18		more
Soil Handling Monitor	Paragon Soil and Environmental Consulting	2020-03-11		more
Intermediate Vegetation Ecologist	Paragon Soil and Environmental Consulting	2020-03-11		more
Soil Surveyor	Paragon Soil and Environmental Consulting	2020-03-11		more
Environmental Inspector	Paragon Soil and Environmental Consulting	2020-03-18		more
Environmental Engineer	McElhanney	2020-03-19	Full-Time	more
Intermediate Environmental Consultant	North Shore Environmental Consultants	2020-03-20	Full-Time	more
Environmental Engineer/Scientist/Technologist – Whitecourt, Alberta	Nichols Environmental (Canada) Ltd.	2020-03-21	Full-Time	more
Environmental Engineer/Scientist/Technologist – Edmonton, Alberta	Nichols Environmental (Canada) Ltd.	2020-03-21	Full-Time	more
Intermediate/Senior Vegetation Ecologist	Trace Associates Inc.	2020-03-31		more
Senior Environmental/Risk Assessor	Solstice Environmental Management	2020-04-05	Full-Time	more
Environmental Scientist or Biologist - 5 to 10 Years Experience	Langan	2020-04-30	Full-Time	more