

Weekly NEWS

esaa Environmental Services Association of Alberta

An Information Service for Alberta's Environment Industry

The Week Ending October 2nd, 2020



Virtual RemTech 2020 October 14 & 15, 2020

Starts in 12 Days – Have You Registered?

ESAA is pleased to announce that the final program for RemTech 2020 is now available. You can view the program at: <https://www.esaa.org/remtech/agenda/>. The program features 63 presentations spread over two days. Please take a moment to check out the agenda.

Virtual RemTech Registration Fees

ESAA has intentionally kept the registration fees low and are asking everyone to register, and to spread the word about the event and presentations. Approximately 90% of ESAA's revenues come from events, and now more than ever your Association needs your support!

	Fee	
Member	\$99 + GST	Register Now
Non-Member	\$119 + GST	Register Now

We look forward to your support of *RemTech* and ESAA.

Thank you to all of the RemTech Sponsors and Supporters!

NEW ESAA MEMBERSHIP BENEFITS

ESAA is Pleased to Offer Two (2) New Member Benefits

- The **Electronic Recycling Association** is a proud member of ESAA and they would like to offer other members preferred discounts on ERA's services. They will pick up and data wipe your unwanted IT devices free of charge and include a 10% discount on any hard drive shredding required. Eligible for any businesses located in Vancouver, Edmonton, Calgary, Saskatoon, Winnipeg, Montreal and Toronto. And the best part is your refurbished computers will be donated to charities and individuals in need! Contact Julia@era.ca for scheduling inquiries.



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electronic.recycling.association

- **Keldar Leadership** has just brought on a new and cost-effective learning management system which offers personal and professional development at the touch of your fingertips! We have courses such as Virtual Team Building, Excel Essentials, and Negotiation Skills. With over 100 courses available, there is no shortage of information to help you and your team grow. For ESAA members, we are offering a special price of 245\$/seat. Contact us at info@keldarleadership.com to try a free demo of our eLearning and/or to find out more!



For a complete list of membership benefits, visit: www.esaa.org/membership/

NEW MEMBERS APPOINTED TO NRCB

Peter Woloshyn has been reappointed chair of the Natural Resources Conservation Board (NRCB).

Joining Woloshyn on the board are part-time member Sandi Roberts and acting members Indra Lynne Maharaj and Earl Graham. These appointments will ensure major natural resource projects in Alberta undergo a fair and impartial review.

“The Natural Resources Conservation Board makes decisions on projects that protect our shared environment and keep Albertans working. I have every confidence in these new and returning board members, and would like to warmly congratulate them on their appointment.” - *Jason Nixon, Minister of Environment and Parks*

The NRCB oversees the review of major development proposals in forestry, non-energy mining, and recreational and water management projects where an environmental impact assessment is required by Alberta Environment and Parks. The board is also responsible for the review, approval, monitoring and enforcement of animal feeding operations in the province.

Woloshyn, a part-time board member, was reappointed based on his experience and will ensure the NRCB continues delivering its services without interruption.

Roberts was selected through an executive search by the Public Service Commission in July 2020. A former acting board member, she has the knowledge and expertise required to transition to a part-time member.

Acting board member Maharaj was selected through an executive search by the Public Service Commission in July 2020, while Graham was chosen from a pool of candidates with previous public agency experience and extensive knowledge of rural municipal governance.

All members are appointed for three-year terms.

Biographies

Peter Woloshyn – reappointed. Peter Woloshyn has a bachelor of science in agricultural economics and a master of science in agricultural economics - resource economics from the University of Alberta. With almost 40 years of experience, he has an extensive background in agricultural policy, economics and research. He was first appointed as chair of the NRCB in December 2017. Before his appointment, he was the chief executive officer of the board for more than 11 years. His corporate knowledge and history of the NRCB has allowed him to mentor new board members.

Sandi Roberts – new member. Sandi Roberts is an engineer and has a bachelor of science in agricultural engineering. She has been an acting board member since 2017 and has served on eight tribunals. From 2002 to 2010, she was an approval officer with the NRCB. She served on town council for the Town of Carstairs from 2013 to 2017, acting as chair or as a member on numerous sub-committees, including the Policy and Governance Committee, Municipal Planning Commission and Municipal Development Committee. She is currently project manager for the Olds College Teaching and Learning Centre of Innovation.

Indra Lynne Maharaj – new member. Indra Lynne Maharaj is a lawyer and holds a master’s degree in law with a focus on environment and energy law. Her legal practice spans 30 years with extensive experience in energy regulation. She served as the chair of the Criminal Injuries Review Board. She is an avid volunteer in her community and within the legal profession.

Earl Graham – new member. Earl Graham is a member of the Parkland Planning Services – Subdivision Appeal Board and of the Blue Mountain Power Co-op Board and is a past director for the Rural Municipalities of Alberta Association of Municipal Districts and Counties. He served as a Clearwater County Council member from 2004 to 2017, and was deputy reeve from 2009 to 2015. He is a current board member of the Alberta Community and Cooperative Association and the Caroline Chamber of Commerce.

PUBLIC CONSULTATION ON POTENTIAL AMENDMENTS TO THE PCB REGULATIONS

Environment and Climate Change Canada (ECCC) is considering amending the [PCB Regulations](#) to address issues identified through their implementation and to address issues unforeseen at the time of their publication.

The PCB Regulations came into force on September 5, 2008. The purpose of these regulations is to protect the health of Canadians and the environment by preventing the release of polychlorinated biphenyls (PCBs) to the environment, and by accelerating the phasing out of these substances.

ECCC has prepared a discussion document to seek comments and views on the issues mentioned above and on potential regulatory amendments that are being considered for the PCB Regulations. This discussion document is now posted on Canada.ca at the following location: <https://canada.ca/en/environment-climate-change/services/pollutants/pcb-in-environment/comment-potential-amendments-bpc-regulations.html>

This initiates a 60 - day public consultation period. Interested parties have until November 23, 2020 to provide written comments to ECCC. Please send your comments to the following email address and indicate "Consultation - Potential Amendments to the PCB Regulations" in the subject line of your message.

Email: ec.bpc-pcb.ec@canada.ca

CANADIAN ENVIRONMENTAL SUSTAINABILITY INDICATORS CANADA'S CONSERVED AREAS

Well-managed conserved areas help preserve species and their habitats for present and future generations by reducing direct human development stresses. Conserved areas play a vital role in conserving Canada's nature. They also provide opportunities for people to connect with nature. The indicators track the amount and proportion of area conserved in Canada.

At the end of 2019, Canada had 12.1% of its terrestrial area (land and freshwater) conserved, including 11.4% in protected areas and 13.8% of its marine territory conserved, including 8.9% in protected areas

Read more at: <https://www.canada.ca/en/environment-climate-change/services/environmental-indicators/conserved-areas.html>

U.S. EPA AND STATE OF NEBRASKA REACH SETTLEMENT OVER ALLEGED ENVIRONMENTAL VIOLATIONS AT HAZARDOUS WASTE INCINERATOR

(Source: HazMat Magazine) The United States Environmental Protection Agency (U.S. EPA) and the State of Nebraska recently announced a settlement with the owners of the Kimball, Nebraska hazardous waste incinerator over alleged violations of the *Resource Conservation and Recovery Act (RCRA)*, *Clean Air Act*, and *Emergency Planning and Community Right-to-Know Act*.

The alleged violations included failure to manage and contain hazardous wastes; failure to comply with air emission limits; failure to comply with chemical accident prevention safety requirements; and failure to timely report use of certain toxic chemicals. Under the terms of the settlement, the owner agreed to pay a \$790,000 civil penalty and will improve facility practices to protect facility workers and the surrounding community from potentially harmful releases of pollutants.

The Kimball hazardous waste incinerator serves the entire United States as a storage and treatment facility for a variety of industrial waste utilizing a 45,000 ton-per-year fluidized bed incinerator. The state-of-the-art thermal oxidation unit (TOU) is capable of maximum destruction efficiencies of hazardous waste and is able to handle an extremely wide variety of feeds. Delisted ash from the TOU will be placed in an on-site monofill built to RCRA Subtitle C standards.

According to the U.S. Environmental Protection Agency (EPA) and the Nebraska Department of Environment and Energy (NDEE), the Kimball facility has been subject to previous enforcement actions, including penalty assessments, in 1997, 2004 and 2010.

According to EPA and NDEE, improper management of wastes incinerated at the facility led to unsafe conditions that could result in employee injury and/or releases of harmful air pollution outside the facility. For example, the agencies allege that the owner failed to address multiple fire incidents resulting from the company's mixing of incompatible wastes.

Terms of the settlement include upgraded plans to classify, manage and contain the wastes incinerated at the facility; an updated fire prevention and response program; and the performance of an environmental audit at the facility to identify and address any continuing noncompliance.

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 Remediation Management of Complex Sites – October 8, 2020, 1:00PM-3:15PM EDT (17:00-19:15 GMT). This training course and associated ITRC guidance: Remediation Management of Complex Sites (RMCS-1, 2017), provide a recommended holistic process for management of challenging sites, termed "adaptive site management." By participating in this training course we expect you will learn to apply the ITRC guidance document to: identify and integrate technical and nontechnical challenges into a holistic approach to remediation; use the Remediation Potential Assessment to identify whether adaptive site management is warranted due to site complexity; understand and apply adaptive site management principles; develop a long-term performance-based action plan; apply well-demonstrated techniques for effective stakeholder engagement; access additional resources, tools, and case studies most relevant for complex sites; and communicate the value of the guidance to regulators, practitioners, community members, and others. For more information and to register, see <https://www.itrcweb.org> or <https://clu-in.org/live>.

SERDP ESTCP Managing AFFF Impacts to Subsurface Environments and Assessment of Commercially Available Fluorine-Free Foams - Part 1 - October 8, 2020, 12:00 PM EDT (16:00 GMT). This is the first session in a 2-part webinar series on managing AFFF impacts to subsurface environments and assessment of commercially available fluorine-free foams. Dr. Damian Helbling (Cornell University) will present his work on developing and optimizing cyclodextrin-based adsorbents to remove PFAS from groundwater. Dr. Satya Chauhan (Battelle Memorial Institute) will summarize his research on optimizing compressed air foam and ultra-high pressure foam delivery systems to improve the quality of commercial off-the-shelf fluorine free foams. For more information and to register, see <https://serdp-estcp.org/Tools-and-Training/Webinar-Series/10-08-2020>.

Sea Level Rise and Resilient Brownfield Revitalization - October 13, 2020, 1:00PM-2:30PM EDT (17:00-18:30 GMT). Sea level rise could cause frequent or even permanent flooding of coastal brownfield sites, their access roads, or other critical services. These floodwaters can release and spread site contaminants and debris, endangering the health of the local people and other living things. Brownfield site managers, project staff, and property owners can manage sea level rise risk and uncertainty with preventive measures, thus reducing the cumulative costs and increasing management and reuse options. This webinar for EPA staff will introduce brownfield and land revitalization project staff and OLEM colleagues to simple tools to understand how sea level rise can impact a coastal site. This session will introduce you to steps to screen for and reduce sea level rise risks, and walk through a case study application in Philadelphia, PA. For more information and to register, see <https://clu-in.org/live>.

ITRC Bioavailability of Contaminants in Soil: Considerations for Human Health Risk Assessment - October 15, 2020, 1:00PM-3:15PM EDT (17:00-19:15 GMT). The basis for this training course is the ITRC guidance: Bioavailability of Contaminants in Soil: Considerations for Human Health Risk Assessment (BCS-1). This guidance describes the general concepts of the bioavailability of contaminants in soil, reviews the state of the science, and discusses how to incorporate bioavailability into the human health risk assessment process. The target audience for this guidance and training course are: project managers interested in decreasing uncertainty in the risk assessment which may lead to reduced remedial action costs, and risk assessors new to bioavailability or those

who want additional confidence and training in the current methods and common practices for using bioavailability assessment to more accurately determine human health risk at a contaminated site. As a participant in this training you should learn to: apply the decision process to determine when a site-specific bioavailability assessment may be appropriate, use the ITRC Review Checklist to develop or review a risk assessment that includes soil bioavailability, consider factors that affect arsenic, lead and PAH bioavailability, select appropriate methods to evaluate soil bioavailability, and use tools to develop site-specific soil bioavailability estimates and incorporate them into human health risk assessment. For more information and to register, see <https://www.itrcweb.org> or <https://clu-in.org/live>.

ITRC Groundwater Statistics for Environmental Project Managers - November 5, 2020, 1:00PM-3:15PM EST (18:00-20:15 GMT). Statistical techniques may be used throughout the process of cleaning up contaminated groundwater. It is challenging for practitioners, who are not experts in statistics, to interpret and use statistical techniques. ITRC developed the Technical and Regulatory Web-based Guidance on Groundwater Statistics and Monitoring Compliance (GSMC-1, 2013) and this associated training specifically for environmental project managers who review or use statistical calculations for reports, who make recommendations or decisions based on statistics, or who need to demonstrate compliance for groundwater projects. The training class will encourage and support project managers and others who are not statisticians to: use the ITRC Technical and Regulatory Web-based Guidance on Groundwater Statistics and Monitoring Compliance (GSMC-1, 2013) to make better decisions for projects; apply key aspects of the statistical approach to groundwater data; and answer common questions on background, compliance, trend analysis, and monitoring optimization. ITRC's Technical and Regulatory Web-based Guidance on Groundwater Statistics and Monitoring Compliance (GSMC-1, 2013) and this associated training bring clarity to the planning, implementation, and communication of groundwater statistical methods and should lead to greater confidence and transparency in the use of groundwater statistics for site management. For more information and to register, see <http://www.itrcweb.org> or <https://clu-in.org/live>.

New Documents and Web Resources

Separating Anthropogenic Metals Contamination from Background: A Critical Review of Geochemical Evaluations and Proposal of Alternative Methodology (EPA-600-R-19-196). Meaningful estimates of background contaminant levels are a critical component of site assessments. A request was submitted by the Ecological Risk Assessment Forum (ERAF) to Ecological Risk Assessment Support Center (ERASC) relating to the issue of background soil chemical demarcation at metals contaminated sites. Specifically, the request pertained to the validity of an empirical methodology (geochemical association plots) that utilizes covariation between chemical concentrations and concentrations of major soil elemental constituents (i.e., reference metals) to identify samples that deviate from "natural" variation. Consequently, a comprehensive investigation of this methodology was conducted and assumes assessments are conducted with chemical and reference metal data collected from reference sites (i.e., background data) and site-related locations. View or download at <https://cfpub.epa.gov/ncea/erasc/recordisplay.cfm?deid=347774>

Terrestrial Metals Bioavailability: A Literature-Derived Classification Procedure for Ecological Risk Assessment (EPA-600-R-20-042). A request was submitted by the Ecological Risk Assessment Forum (ERAF) to Ecological Risk Assessment Support Center (ERASC) relating to the issue of terrestrial metals bioavailability. The ERAF specifically requested a product that characterizes typical aerobic soils in terms of their potential to mitigate metals bioavailability to soil-dwelling biota. An extensive literature search and corresponding meta-analysis of the empirical data was recommended and performed. The result is a validated classification procedure, or quantitative tool, that broadly characterizes typical aerobic soils in terms of their potential to sequester common divalent cationic metal contaminants and mitigate their bioavailability to soil-dwelling biota. It is proposed to augment other ecological risk assessment approaches and risk-based remediation of metals contaminated soils. View or download at <https://cfpub.epa.gov/ncea/erasc/recordisplay.cfm?deid=349052>

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:

- Source Area Remediation Report Reed Manufacturing Services Franklin, Indiana
- Seventh Semi-Annual VRP Progress Report IMTT Savannah North Terminal Savannah, Chatham County, Georgia
- PlumeStop Phase 1 Pilot Study at Old Outfall 002
- Validation of Advanced Molecular Biological Tools to Monitor Chlorinated Solvent Bioremediation and Estimate cVOC Degradation Rates
- Post-Remediation Performance Assessment at a Petroleum Impacted Site

- Cinderella & Stickel Cleaners Biosparging Remedy
- Case Study: Boeing Groundwater Remediation, Wichita
- Off-site Groundwater Treatment Pilot Study Franklin Power Products, Inc./Amphenol Corporation
- Addressing Threatened and Endangered Species on DoD Lands
- PFAS Removal in Drinking Water Treatment Systems

ESAA MEMBER NEWS

McCUE ENGINEERING CONTRACTORS ANNOUNCES A NEW BUSINESS DIVISION: McCUE ENVIRONMENTAL, A B.C. DISTRIBUTOR FOR CYPHER ENVIRONMENTAL'S NON-TOXIC DUST SUPPRESSANTS.



Delta, British Columbia (September 29, 2020) – McCue Engineering Contractors (“McCue Engineering”) is pleased to announce a new business division, McCue Environmental. McCue Environmental will service British Columbia in the distribution of Canadian manufacturer, Cypher Environmental Ltd. (“Cypher”)’s, non-toxic dust suppressant and soil stabilization products: Dust Stop®, Dust Stop® Liquid Concentrate and EarthZyme®.

BROWNFIELDS TO GOLD MINES

Dust Stop® and EarthZyme® provide industry, utility companies, government, and private landowners with operational, economic, and environmental benefits through improved road conditions, water conservation and the use of all-natural ingredients.

“We are dedicated to keeping water clean, and we’re pleased to offer dust management products that protect creeks and rivers from the impacts of both dust itself and many of the other commonly used dust control products.” said President and Chief Executive Officer, Chris McCue “We look forward to our collaboration with Cypher in providing new products to our customers.”

“We’re excited about the new alliance with McCue due to the strikingly similar set of core values our companies possess” mentioned President of Cypher, Todd Burns. “Beyond the shared core values, McCue’s expertise and focus on water is well aligned with our product offerings, and I believe BC as a whole is a niche market that has a growing demand for environmentally friendly and innovative solutions.”

McCue Engineering will continue to provide water treatment services and will continue forging relationships with indigenous people through our Training Indigenous Peoples (“TIPs”) for Water Treatment Program.

McCue Engineering welcomes Esma Al-Autman as Director of Marketing and Business Development, to lead McCue Environmental. “McCue has provided me a platform to showcase the benefits of these products to industry.” said Esma. “I am excited for this new opportunity and very much looking forward to being a part of McCue’s continued growth and success.”

About McCue Engineering Contractors

Established in 2000, McCue Engineering Contractors is a Canadian, leading edge, full-service water treatment and brownfield remediation engineering and construction company. McCue continues to provide end-to-end water treatment and vapour management solutions to a multitude of industrial customers including: Mining, Oil and Gas, Manufacturing, and Brownfield Sites.

Learn more about McCue Engineering Contractors at: <https://www.mccuecontracting.com/>

About Cypher Environmental Ltd.

An industry pioneer in eco-friendly road treatment, Cypher Environmental is constantly innovating and delivering greater performance through products for companies, communities and industries that need to comply with evolving environmental standards. With Cypher on your side, you can improve safety, efficiency and your bottom line on every project while not harming the environment.

Cypher products are non-corrosive, non-toxic and environmentally friendly. Highly concentrated formulations mean economical shipping, which enhances overall cost-effectiveness. Our long-lasting solutions provide operational efficiencies and potentially significant cost savings while protecting the earth and keeping the world green.

For over 16 years, Cypher continues to provide environmentally friendly, cost effective solutions around the world through our extensive distributor network, as well as direct to many North American and foreign customers. Distribution channels exist in more than 50 countries across the globe. Cypher is a 100% Canadian owned company based in Winnipeg, Manitoba, Canada.

Learn more about Cypher Environmental Ltd. at: <https://www.cypherenvironmental.com/>

NEW ESAA MEMBER

ESAA's Board of Directors and staff would like to welcome the following new member:

Full Member:



ELM Inc.

1000, 205 - 5 Avenue SW
Box 20120, Bow Valley RPO
Calgary, AB T2P 4H3
Phone: (587) 392-4002
Web: elminc.ca/

Tammi Price, CFO & COO
e-mail: tammi@elminc.ca

Profile

ELM Inc. is an industry-leading Canadian service company providing an integrated approach to environmental liability management in the areas of well abandonment, surface equipment and pipeline decommissioning, remediation, reclamation and water and waste management. ELM is backed by a highly technical team, with seasoned leadership, who have been safely delivering solutions to our clients for almost 30 years. Our strengths are providing experienced oversight, understanding client needs and ensuring timely and efficient completion of complex projects. ELM's commitment is to improve the environment, while reducing risk for our clients and their stakeholders.

UPCOMING EVENTS

***Upcoming ESAA Webinar
Stormwater Re-Use in Prairie Watersheds***

**11 am - 12 pm
October 7th, 2020**

Stormwater reuse is becoming increasingly important as climate change and natural variability affects the availability of water throughout Prairie watersheds. Stormwater quality from agricultural landscapes can be affected by nutrient, bacteria, sediment and biomass loading. Similarly, stormwater quality from urban landscapes is further affected by winter road servicing (traction aids and deicing) and occasional sewer overflows. Bill will share the findings for recent applied research on stormwater reuse within southern Alberta

and its implications for the design of stormwater retention facilities and treatment options for stormwater reuse.

Registration is Free. [Register Now](#)

Great Lakes PFAS Summit, October 26-30, 2020. The Great Lakes PFAS Summit will bring together environmental program managers, policy experts, researchers, and contractors from around the Great Lakes region to share the challenges of addressing this contamination and present innovative technical solutions developed to address these "forever" chemicals. The goals of this conference are to provide the most current and reliable science and policy, facilitate networking and information sharing, and explore current and future research topics related to PFAS. For more information and to register, see https://www.michigan.gov/egle/0,9429,7-135-3308_3333-518324--,00.html.

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
Intermediate Environmental Consultant	North Shore Environmental Consultants	2020-10-25	Full-Time	more
Intermediate Environmental Consultant	North Shore Environmental	2020-10-25	Full-Time	more
Project Manager	H3M Enviromental Ltd.	2020-10-18	Contract	more



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Comments & submissions are welcome!

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