

Federal Ecological Risk Assessment Training Available
December 20, 2012

The Federal Contaminated Sites Action Plan (FCSAP) is hosting a training session to introduce the FCSAP Ecological Risk Assessment Guidance for Federal Contaminated Sites January 23-24 in Vancouver. Priority for registration is given to federal custodians, but remaining spots are open to other stakeholders involved with FCSAP sites. For details please [review the attachment](#).

Sponsorship Opportunities - Site Remediation in BC Conference
December 14, 2012

We are currently looking for targeted support to help make [this ministry conference](#) an even greater success. If you are interested in sponsoring one of the scheduled social activities, program breaks or other targeted sponsorship areas, please submit a completed copy of the attached form by mail, fax or email to the contact provided. If you have any questions, please contact Kelli Larsen at kelli.larsen@gov.bc.ca for more information.

Please note that all sponsors will receive recognition in the sponsor listings of our brochure and registration site as well as signage and acknowledgement during the event.

We expect that this conference will be attended by approximately 400 people including environmental professionals, non-profit organizations, students and many business leaders. Members from all levels of government not only from British Columbia, but across Canada and the United States will also take part.

Thank you for your consideration.

Kerri Skelly
Land Remediation Section
Ministry of Environment

Don't forget to [sign up for the conference](#). Early Bird pricing ends December 22, 2012.

Formats for Submission of Forms and Information
December 4, 2012

This is to remind clients to submit information, applications, reports and plans and similar documents both in electronic and paper formats to the Land Remediation Section of the ministry. This will help streamline the review of your submissions and will speed up the retrieval of documents you submit.

- For those notification and application forms which are not in a fillable electronic format, please scan them and e-mail them to us in pdf format, as well as send them in paper form, as indicated in the instructions with the forms.
- If you have completed a fillable form in MS Word or pdf format, please e-mail it to us and send a hardcopy by regular mail or a courier service as directed in the form's instructions.
- For reports and plans which are submitted in support of applications for contaminated sites services, please provide electronic versions on a CD or DVD (or by email for reports 20 pages or less in length). If that is done, we require only one paper copy of a report or plan to be provided.

If you have any questions or comments please send them to site@gov.bc.ca.

[Site Remediation in B.C. Conference Registration Available](#) [November 30, 2012](#)

Registration is now available for our two day conference to be held at the Vancouver Convention Centre on March 7 – 8, 2013. **Site Remediation in B.C. – From Policy to Practice** will offer opportunities to discuss ideas for regulatory change and to learn about the technical aspects of the B.C. regime that supports how remediation is done today, and how it will move forward into the future. Topics will also include technical, legal and financial concepts related to brownfield redevelopment, innovation and its barriers, and remediation options analysis at both an introductory and advanced level.

For more information, please check out our [conference brochure](#). If you have any questions, please email Stephanie Gustafson at Stephanie.Gustafson@gov.bc.ca.

Alternately, you may go directly to our [registration site](#) to sign up now. Early bird rates are available until December 22, 2012.

[Updated policy on combining parcels with different owners](#) [November 15, 2012](#)

Last May we implemented a policy, in the context of applications for contaminated sites legal instruments such as Certificates of Compliance, requiring preapproval by a Director of Waste Management of any proposal to combine parcels of land with different ownership into one site. That policy was described in Version 1 of Fact Sheet 48, “Remediation Liability and Combining Parcels with Different Owners” and limited the requirement for preapproval only to those situations where remediation was carried out under the risk-based remediation standards of the Contaminated Sites Regulation.

This policy has now been expanded so that preapproval is required by a Director for any proposal to combine parcels with different ownership into one site, as part of an application for a contaminated sites legal instrument. The combination of parcels could occur where either the numerical standards or the risk-based standards of the Regulation are applied. Please consult the last page of [Version 1.1 of Fact Sheet 48](#) for details.

If you have any questions or comments please send them to site@gov.bc.ca.

Colm Condon, Risk Assessment & Remediation Manager on Leave
October 23, 2012

Please be advised that Colm Condon, Manager, Risk Assessment and Remediation in the Land Remediation Section of the B.C. Ministry of Environment, will be on parental leave for 6 months from October 29th, 2012 to April 26th, 2013.

Colm's duties will be covered by a team of existing Land Remediation Section managers, as follows:

- Management of and sign-off for service application submissions directly to the ministry: Mike Macfarlane (November); Alan McCammon (December 2012 to April 2013)
- Management of and sign-off for service application submissions received from the CSAP Society with the recommendation of an Approved Professional: John Ward

If you have any questions or comments please send them to site@gov.bc.ca.

Colm Condon, Risk Assessment & Remediation Manager on Leave
October 23, 2012

Updated risk assessment guidance and forms released
October 19, 2012

We have just released Version 3 of [Technical Guidance 7, "Supplemental Guidance for Risk Assessments."](#) This latest update addresses recent changes made by Health Canada to its risk assessment guidance.

Also, we have updated all the [portable document format \(pdf\) fillable forms](#) on our website. As before, you continue to have the option of using either the old or new format versions of the forms.

If you have any questions or comments please send them to site@gov.bc.ca.

BCEIA Brownfield Breakfast Event October 30, 2012
October 1, 2012

BCEIA Brownfield Breakfast Event October 30, 2012: Vision to Action, Creating a Vibrant Downtown

The BC Environment Industry Association's Brownfield Committee and Ms. Sandy Blue, Manager of Strategic Economic Initiatives, District of Maple Ridge invite you to join us for an engaging breakfast discussion on creating and implementing a successful municipal redevelopment incentive program.

Municipal incentive programs are traditionally more akin to discount or clearance sales of undesirable/under-utilized properties. To benefit from, these discounts, developers must navigate lengthy and complex application processes; often with limited success. The Maple Ridge program takes a different approach and is focused on the goal of achieving the vision of a vibrant Town Centre, increased investment, and accelerated growth, rather than focusing on a property's past (such as contamination or state of disrepair). This creative and simple program has resulted in the redevelopment of a number of brownfields.

[REGISTER NOW](#)

Tickets \$50 (\$45 for BCEIA and CBN Members)

Signature Sandman Hotel, 8828 201 Street, Langley B.C.

CSAP Society Fall Workshop (October 10th) - Everyone Welcome
October 1, 2012

Catch up on CSAP's latest technical reviews. Are you aware of the difference between Green and Sustainable Remediation? Are you familiar with the triple bottom line? Join CSAP for the Fall Professional Development Workshop and brush up on the terminology and get a look at what may be around the corner.

Program highlights include:

- The Ministry of Environment will be present, and coffee breaks have been extended to 30 minutes to allow more conversation
- CSAP will be releasing a technical review on Trench Vapour Attenuation
- CSAP will discuss comments provided on the Ministry's draft Administrative Guidance 11 – Communications Protocol and Technical Guidance 22 – use of attenuation for groundwater
- Q & A session moderated by Colm Condon and Colin Dunwoody
- Understanding the economic value of contaminated sites – a recent research project by CSAP will be released
- An overview of the work of the Sustainable Remediation Forum in Canada (SuRF Canada) and the UK

- Several “How To’s” and lessons learned through sustainable remediation case studies
- The Ministry of Environment perspective on green and sustainable remediation
- Is sustainable remediation an option for BC? – a panel discussion with Stella Karnis (CN), Jonathan Smith (Shell Global), Mike Macfarlane (MoE) and Bruno Thielmann (Wesgroup).

For registration and event details (non-members welcome) [click here](#)

Request to Complete Provincial Qualified Persons Survey September 28, 2012

You are invited to participate in a provincial survey as part of a project to explore how the use of qualified persons can improve the effectiveness and efficiency of the administration of natural resource authorizations. The survey is focused on the functionality of competency and accountability provisions for 15 qualified person types, and what, if any improvements in these provisions may be warranted.

This invitation is also being distributed widely through qualified person governing bodies, industry associations and other groups whose members may be affected by provincial authorizations involving qualified persons. In addition, please pass on the invitation to others you know who may be interested and knowledgeable in the subject matter.

You may complete the survey online at: www.qualifiedpersons.malatest.net. For additional information about the research, please visit: <http://www.nrs.gov.bc.ca/qp/index.html>. If you have any questions about the research, please contact:

Sarah Mathewson
Research Analyst, R.A. Malatest & Associates Ltd.
s.mathewson@malatest.com
Ph. 250.384.2770 x 424|Fax: 250.384.2774

Personal information is collected for the purpose of evaluating the Qualified Persons Certification and Accountability Program by the Ministry of Environment under s.26 (c) of the Freedom of Information and Protection of Privacy Act. Please be aware that any personal information in connection with your response to the survey is stored in Canada by Malatest and not the Government of British Columbia. For questions regarding the collection of personal information, please contact Sarah Mathewson, 858 Pandora Ave, Victoria, BC, V8W 1P4, (250) 384-2770 ext. 424, s.mathewson@malatest.com.

GeoEnviroLogic Risk Assessment Workshop October 17 - 18
September 20, 2012

GeoEnviroLogic Professional Development will be holding a human health and ecological risk assessment workshop on October 17 and 18, 2012.

For registration and event details, visit www.GeoEnviroLogic.ca.

Fillable pdf forms now available on Land Remediation website
September 18, 2012

As part of the government-wide Straightforward BC Forms initiative, a [set of portable document format \(pdf\) fillable forms](#) has just been released on our website. Now you have the option of using either the old or new format versions of the forms. Please note that the Site Risk Classification Report and Exposure Pathway Questionnaire have been combined in the pdf fillable set.

If you have any questions or comments please send them to site@gov.bc.ca.

2nd Annual SABCS Conference & Workshop on Contaminated Sites
September 11, 2012

Second Annual Science Advisory Board Conference and Workshop on Contaminated Sites, September 26 and 27, Vancouver BC

A final program, abstracts and workshop schedule are found on the SABCS website at www.sabcs.chem.uvic.ca. The events provide complementary scientific studies related to practice in remediation and site investigation. Topics of interest include soil vapour intrusion, natural attenuation and risk assessment.

- You will have seen the Ministry of Environment draft technical guidance on the application of MNA to both inorganic and organic contaminants. The workshop is tailored to provide a review and overview of the science of MNA for metals and other inorganic species and will be of value in incorporating this emerging approach in your practice
- The workshop is eligible for professional development credit for CSAP Society and ACPBC members.

Space is still available for both the conference and workshop.

Registration: [University of Victoria Libraries Conference Services](#)

The Second Annual SABCS Conference on Contaminated Sites
September 27, 2012
Segal Graduate School for Business

Room 1200 – 1500, 500 Granville Street
Vancouver BC V6C 1W6

Professional Development Workshop
September 26, 2012

Applications of Geochemistry in Contaminated Sites Remediation: Fundamentals and Natural Attenuation

Presented by Bill Deutsch, Geochemistry Services LLC
Earl and Jennie Lohn Policy Room
SFU Harbour Centre
515 West Hastings Street
Vancouver BC V6B 5K3

October 10 CSAP Society Workshop on Sustainable Remediation
September 10, 2012

CSAP Society Fall Professional Development Workshop on Sustainable Remediation

The fall professional development workshop is scheduled for October 10, 2012. The agenda includes a short update on CSAP Society activities, the introduction of two new technical working groups and the release of our research survey on the economic value of the contaminated sites sector. After the morning coffee break, we will address the workshop theme, sustainable remediation.

Program highlights include:

- An overview of the work of the Sustainable Remediation Forum in Canada (SuRF Canada).
- An overview of the SuRF-UK framework for assessing the sustainability of soil and groundwater remediation and benchmarking sustainable remediation decision-support tools for use in a tiered assessment framework.
- Sustainable remediation planning and design – Lessons from successfully completed projects.
- Future land use and sustainable remediation at the Sydney Tar Ponds and coke oven sites remediation project – A case study and lesson learned on adaptive remedial design.
- Development of a new methodology framework for the integration of sustainable principles in the selection of a remedial option process – a case study in the gas sector.
- The BC Ministry of Environment perspective on sustainable remediation.
- Is sustainable remediation an option for BC? – a panel discussion.

For registration and event details (non-members welcome) [click here](#),

Notification of Likely or Actual Migration Form Updated.
August 29, 2012

This is to inform our subscribers that there has been a change on page one of the Notification of Likely or Actual Migration form. Updated [Version 6.1 of this form](#) is now available on our website and should be used by those providing notifications about contaminant migration to affected parcel owners and the Director of Waste Management. For additional information, consult our [key topic on contaminant migration](#).

If you have any questions or comments please send them to site@gov.bc.ca.

39th Aquatic Toxicity Workshop in Sun Peaks B.C.
August 15, 2012

The 39th Aquatic Toxicity Workshop “Source to Resource” will take place in Sun Peaks, B.C. from September 30 to October 3, 2012.

The workshop is Canada's major annual meeting in the field of aquatic toxicology and related disciplines. It provides an opportunity to share information on current and emerging topics of regional, national and international importance related to water quality. Participants include students, academics, government scientists and regulators, environmental consultants and industry representatives.

Please visit the [ATW](#) website for important information on abstract submissions, short courses, hotel registration and events being offered during the workshop. An early registration discount is available until September 7.

CCME Draft Site Characterization Manual available for public comment
August 01, 2012

We have been requested to inform our subscribers that the Canadian Council of Ministers of the Environment (CCME) has released for public comment the following volumes of their draft *Manual for Environmental Site Characterization in Support of Environmental and Human Health Risk Assessment*:

- Volume I: Guidance Manual,
- Volume II: Checklists, and
- Volume III: Suggested Operating Procedures

Further details on these documents is available at http://www.ccme.ca/ourwork/soil.html?category_id=44

Comment or questions on the documents should be directed to:
Gwen Waedt
Canadian Council of Ministers of the Environment
360 – 123 Main Street
Winnipeg, MB R3C 1A3
Fax: 201-948-2125
E-mail: gwaedt@ccme.ca

The public comment period for these documents closes **November 30, 2012**.

Update on Site Risk Classification released August 01, 2012

Just over two years have elapsed since [Protocol 12, “Site Risk Classification, Reclassification and Reporting”](#) came into effect and the ministry has released a progress report on the site risk classification process.

The [Site Risk Classification Update](#) contains the following information:

- site risk classification statistics (including high risk sites);
- site risk reclassification summary;
- the risk classification audit process; and
- common mistakes made when submitting site risk information and completing the required forms.

If you have any questions or comments please send them to siteclassification@gov.bc.ca.

Land Remediation documents released for review and comment July 17, 2012

The Ministry of Environment’s Land Remediation Section has released 14 draft documents for public review and comment by September 30, 2012. They include 3 draft Protocols, 6 draft Procedure documents, 2 draft Administrative and 3 draft Technical Guidance documents.

The documents deal with a range of topics, including:

- Ministry expectations for communications involving the migration of contaminants;
- Technical requirements and guidance on monitored natural attenuation and bioremediation of hydrocarbon contaminated soil;
- Liability relief for vendors of mine sites through mines Transfer Agreements;
- New and streamlined administrative procedures;

- The application of environmental quality standards for the protection of aquatic receiving environments;
- The Section's increasing focus on high risk sites as directed by the Ministry's Service Plan.

The documents are all in draft form and do not represent final ministry policy or requirements on any of the subjects they address. They have been released to obtain feedback from stakeholders, and our intent is to use their comments to improve each document.

Please send your comments to the e-mail address beside each document title listed on our [Current Requests for Comments](#) webpage, by September 30, 2012.

If you have any questions or comments please send them to site@gov.bc.ca.

Three Land Remediation documents finalized July 17, 2012

The Land Remediation Section has finalized three documents which have just been released on our website. They include:

Protocols

15. [Soil Treatment Facility Design and Operation for Bioremediation of Hydrocarbon Contaminated Soil](#) (new)
17. [Forms for Notifications of Independent Remediation and Migration](#) (update)

Technical guidance

07. [Supplemental Guidance for Risk Assessments](#) (update)

The Notification of Independent Remediation and Notification of Likely or Actual Migration forms in Protocol 17 have now been updated in the [forms area](#) of our website. Please use these new versions now.

If you have any questions or comments please send them to site@gov.bc.ca.

Upstream Oil and Gas Site Characterization Guidance Posted for Comment July 09, 2012

Draft "[Guidance for Characterizing Contamination at Upstream Oil and Gas Sites](#)" dated January 24, 2012 has now been posted to our website for public review and comment.

This document was prepared by SNC Lavalin Environment, under contract from the Ministry of Environment and in collaboration with agency and industry stakeholders, to guide the

characterization of upstream oil and gas sites in British Columbia. It is intended to be used to satisfy requirements of both the ministry and the BC Oil and Gas Commission. Ultimately, the ministry intends to develop, in collaboration with the Commission, a ministry technical guidance document to accompany SNC Lavalin's guidance, and is now seeking public input to assist with this process.

Please review SNC's draft characterization guidance and send your comments and questions about it, along with suggestions for the development of an accompanying ministry and Commission technical guidance document, to Steve Dankev (Stephen.Dankevy@gov.bc.ca) by September 30, 2012.

[Health Canada risk assessment documents available](#)
[June 19, 2012](#)

We have been requested to inform our subscribers that Health Canada's Contaminated Sites Division has recently updated and finalized the following risk assessment related documents:

Health Canada. 2010. Federal Contaminated Site Risk Assessment in Canada, Part V: Guidance on Human Health Detailed Quantitative Risk Assessment for Chemicals (DQRACHEM). Contaminated Sites Division, Safe Environments Directorate, Health Canada, Ottawa.

Health Canada. 2010. Federal Contaminated Site Risk Assessment in Canada, Part VI: Guidance on Human Health Detailed Quantitative Radiological Risk Assessment (DQRARAD). Contaminated Sites Division, Safe Environments Directorate, Health Canada, Ottawa.

Health Canada. 2010. Federal Contaminated Site Risk Assessment in Canada, Part VII: Guidance for Soil Vapour Intrusion Assessment at Contaminated Sites. Contaminated Sites Division, Safe Environments Directorate, Health Canada, Ottawa.

Health Canada. 2010. Federal Contaminated Site Risk Assessment in Canada: Supplemental Guidance on Developing a Contract Statement of Work (SOW) for Human Health Preliminary Quantitative Risk Assessment (PQRA) and Detailed Quantitative Risk Assessment (DQRA). Contaminated Sites Division, Safe Environments Directorate, Health Canada, Ottawa.

Health Canada. 2010. Federal Contaminated Site Risk Assessment in Canada: Supplemental Guidance on Human Health Risk Assessment for Country Foods (HHRA Foods). Contaminated Sites Division, Safe Environments Directorate, Health Canada, Ottawa

Health Canada. 2010. Federal Contaminated Site Risk Assessment in Canada Supplemental Guidance: Checklist for Peer Review of Detailed Human Health Risk Assessments (HHRA). Contaminated Sites Division, Safe Environments Directorate, Health Canada, Ottawa.

Health Canada. 2010. A Guide to Involving Aboriginal Peoples in Contaminated Sites Management. Contaminated Sites Division, Safe Environments Directorate, Health Canada, Ottawa.

The above documents are available on request at <http://www.hc-sc.gc.ca/ewh-semt/pubs/contamsite/index-eng.php>

If you have any questions or comments on these documents please contact cs-sc@hc-sc.gc.ca

**CSAP Society Exam Application Deadline on June 1
May 31, 2012**

Please note that applications to write the Contaminated Sites Approved Professionals Society 2012 exams in November will be accepted until 5 p.m., June 1st . Applications can be submitted by email to JGunderson@csapsociety.bc.ca

Catherine Schachtel
Executive Director
CSAP Society

**Ministry of Environment Conference Announcement: Site Remediation in B.C.
May 31, 2012**

The Land Remediation Section is pleased to announce an exciting new educational and capacity building initiative to take place March 7 – 8, 2013 at the Vancouver Convention Centre.

Site Remediation in B.C. – From Policy to Practice will be a two-day conference addressing the core regulatory and technical aspects of contaminated site remediation at both introductory and advanced levels. The conference will include sessions on brownfield remediation and redevelopment and emerging initiatives such as sustainable remediation and innovative remediation techniques. The Land Remediation Section also plans to provide an update and concept discussions related to the ministry's planned new site remediation act.

Registration for this event is expected to commence in September 2012.

In the meantime, mark your calendars and look out for further information as the conference program develops.

Kerri Skelly
Alan McCammon
Land Remediation Section
B.C. Ministry of Environment

Colm Condon, New Manager, Risk Assessment and Remediation
May 28, 2012

This is to announce the recent hiring of Colm Condon to the position of Manager, Risk Assessment and Remediation in our Land Remediation Section. Colm takes over this position from Doug Walton following Doug's retirement on March 31, 2012.

Colm has been with the ministry since 2006, working as a Risk Assessment Officer on a number of high risk and high profile projects. Colm came to the ministry following work in the private sector in environmental consulting and investment banking. He holds a Masters in Resource and Environmental Management degree from Simon Fraser University, and Bachelor of Science degree (genetics and cell biology) from the University of British Columbia.

You are welcome to contact Colm by phone at 250.953.3855 and e-mail at colm.condon@gov.bc.ca.

New documents on Land Remediation Website
May 14, 2012

The following new documents have just been released on our website:

- [Fact Sheet 47, "Wide Area Sites"](#)
- [Fact Sheet 48, "Remediation Liability Implications of Combining Parcels with Different Owners"](#)
- Land Remediation Section [presentations](#) to the October 26, 2011 CSAP Society Professional Development Workshop
- My recent [presentations](#) to Continuing Legal Education of BC and the Environmental Managers Association of BC
- [Flow charts](#) to accompany Technical Guidance 6, "Water Quality Determination," and
- [New Q&As](#) up to those for March 2011

If you have any questions or comments please send them to site@gov.bc.ca

GeoEnviroLogic Risk Assessment Workshop and Risk Symposium
May 7, 2012

We have been requested to send the following message to our subscribers.

GeoEnviroLogic Professional Development has scheduled a 2-day workshop on May 29 and 30 entitled "Human Health and Ecological Risk Assessment: Fundamentals and Beyond." It will be followed by GeoEnviroLogic's 7th Annual Risk Symposium on May 31.

Both will be held at the BC Institute of Technology's Downtown Campus in Vancouver, B.C. For registration and early bird discount information, visit www.GeoEnviroLogic.ca.

BC Brownfield Renewal Funding program is now open
May 2, 2012

We have been requested to send the following message from the Ministry of Forests, Lands and Natural Resource Operations to our stakeholders.

On behalf of BC Brownfield Renewal Strategy and the Ministry of Forests, Lands and Natural Resource Operations, we are pleased to announce that the Brownfield Funding Program is open.

- For complete information check: <http://www.brownfieldrenewal.gov.bc.ca/> (details are located under the “spotlight” section).
- Please take a moment review changes to the program which are shown in **RED text** in the Funding guide located at the link above.
- Have questions? Call the BC Brownfield Information line 1-877-787-9730.

Free Information from the AMS/WASTE and COORS Databases
April 27, 2012

We have recently made some changes to provide the information free of charge in our AMS/WASTE and COORS databases. Previously, searches for information in these databases could only be requested by submitting a [Site Information Request Application](#).

Now, these databases are available to the public to conduct its own searches, free of charge, at the following Internet addresses.

- **AMS/WASTE:** http://www.env.gov.bc.ca/epd/waste_discharge_auth/datamart/index.htm
- **COORS:** <https://a100.gov.bc.ca/pub/ocers/searchApproved.do?submitType=menu>

The AMS/WASTE database contains information on waste discharge permits, approvals, orders, and regulated sites under the *Environmental Management Act*. For example, you can get information in AMS/WASTE about a site where waste discharges have occurred under an Environmental Management Act authorization such as a waste discharge permit. COORS has information about violations under the *Environmental Management Act* and other statutes, listing names and enforcement actions taken.

Free information from SWIS, which maintains information related to the generation and transport of hazardous waste under the Hazardous Waste Regulation, will be available shortly. In the interim please submit a [Site Information Request Application](#) for information from that database.

If you have any questions or comments please send them to our [Site Information Advisor](#).

Tyler Keith
Manager, Business Services
Environmental Management Branch
Ministry of Environment

[Call for Abstracts for Second Annual SABCS Conference](#)
[April 16, 2012](#)

We have been requested to inform our subscribers of the following workshop:

The Science Advisory Board for Contaminated Sites in British Columbia's (SABCS) Second Annual Conference on Contaminated Sites is being held in Vancouver on September 27, 2012, with a workshop on the 26th. The conference will follow the format of contributed papers, and the deadline for abstracts is May 11, 2012 so that a program can be finalized at an early date this year.

Details of the Call for Abstracts are found at www.sabcs.chem.uvic.ca. Suggestions on session themes and workshop focus this year are also welcomed.

Please contact [Paul West](#) if you have any questions or comments.

[April 18 & 19 GeoEnviroLogic Workshop on Site Investigations](#)
[March 29, 2012](#)

We have been requested to inform our subscribers of the following workshop:

Understanding Environmental Site Investigations: Contaminated Site Model and Robust Site Characterization, at the downtown UBC Campus in Vancouver, April 18 and 19, 2012. Visit www.GeoEnviroLogic.ca for the workshop agenda as well as registration and early bird discount information.

We will review the most often cited barriers and risks (real or perceived) involved with restoring these challenging sites, and present practical solutions.

BCEIA Brownfield Breakfast Series Meeting February 21, 2012
February 10, 2012

**Fuelling a Brownfield: Innovative Approaches to Revitalize Former Service Station Sites
February 21, 2012**

7:30-10:30am

Morris J Wosk Centre for Dialogue
580 West Hastings Street, Vancouver
\$65 BCEIA Members
\$85 Non-Members

[Register now!](#)

Feature Speakers:

Bruno Thielmann, Director of Land Development, Wesgroup Properties LP

Alan W. McCammon, MSc PGeo, Manager, Remediation Assurance & Brownfields Land
Remediation Section BC Ministry of Environment

Tami Fur, Manager, Brownfield Implementation (BC Brownfield Renewal Strategy), Ministry
of Forests, Lands and Natural Resource Operations

Chris Reid, Director, Shifting Growth

Tony Crossman, Partner, Miller Thomson LLP

Join speakers Bruno Thielmann, Alan McCammon, Tami Fur, Chris Reid, and Tony Crossman
for an engaging discussion on approaching common problems of former service station sites
using uncommon solutions including:

- information on a newly developed toolkit;
- lesser-known strategies for the redevelopment of former service stations; and
- innovative approaches to interim property uses.

We will review the most often cited barriers and risks (real or perceived) involved with restoring
these challenging sites, and present practical solutions.

GeoEnviroLogic Workshop, Seminar and Events
February 8, 2012

We have been requested to forward the following message to our subscribers.

GeoEnviroLogic: Beyond Data Workshop (February 15 & 16th) and Update on BC Contaminated Site Regime Seminar (February 29th)

Register at: www.GeoEnviroLogic.ca

There is one week left to register for our *Beyond Data: Better Investigations – Better Results* workshop in Vancouver.

Topics for this two-day workshop includes:

- Importance of a Robust Conceptual Site Model
- Sources of Site Contamination
- Site Stratigraphy
- Hydrogeology
- Chemical Fate and Transport Processes
- Data Quality
- Preparing Effective Discussion Sections
- Writing Effective Conclusions and Recommendations
- Overview of Remedial Approaches and Options

Date: Wednesday February 15 and Thursday February 16, 2012.

Time: 8:30 am to 4:30 pm

Location: BCIT Downtown Campus, 555 Seymour Street, Vancouver, BC

Registration fee: Includes lunch and refreshment. **Group Discount is also available.**

Early Bird Discount closing on Fri, February 10th for our *Update on BC Contaminated Site Regime: Interpreting Requirements under New Policies and Guidance* Seminar in Vancouver.

Date: February 29, 2012

Time: 8:30am to 4:30pm

Location: BCIT Downtown Campus, Vancouver BC

Registration fee: Includes lunch and refreshment. **Group Discount is also available.**

Register at: www.GeoEnviroLogic.ca

Pre-announcement of Upcoming GeoEnviroLogic Events:

April 18 & 19, 2012 - Understanding Environmental Site Investigations: Contaminated Site Model and Robust Site Characterization (in Vancouver, BC)

May 2 & 3, 2012 - Beyond Data: Better Investigation - Better Results (in Calgary, AB)

May 7 & 8, 2012 - Statistical Methods for Contaminated Sites (in Vancouver, BC)

May 29 & 30, 2012 - Human Health and Ecological Risk Assessment: Fundamentals and Beyond Risk Assessment Workshop (in Vancouver, BC)

May 31, 2012 - 7th Annual Risk Symposium: A Professional Forum for Discussion on Current Risk Assessment Topics (in Vancouver, BC)

Details will be posted on www.GeoEnviroLogic.ca

**Registration for February 21 BCEIA Brownfield Breakfast
January 23, 2012**

We have been requested to forward the following message to our subscribers.

Fuelling a Brownfield: Innovative Approaches to Revitalize Former Service Station Sites

Join the British Columbia Environment Industries Association for an engaging discussion on approaching common problems of former service station sites using uncommon solutions including:

- information on a newly developed toolkit;
- lesser-known strategies for the redevelopment of former service stations; and
- innovative approaches to interim property uses.

We will review the most often cited barriers and risks (real or perceived) involved with restoring these challenging sites, and present practical solutions. Bring your questions for the experts, or [submit your questions](#) in advance to maximize the relevance of this session. Watch your inbox for upcoming details about our special guest speakers!

[Register now!](#)

\$65 BCEIA Members

\$85 Non-Members

February 21, 2012

7:30 - 10:30 am

Morris J Wosk Centre for Dialogue

580 W Hastings Street, Vancouver

Thank you to our early sponsors! [Sponsorship opportunities still available.](#)

Gold sponsors:

Hemmera www.hemmera.com

Agat Laboratories <http://www.agatlabs.com/>

Silver sponsors:

Quantum Murray <http://www.murraydemolition.com/>

HAZCO Environmental Services, A Division of CCS www.hazco.com www.ccscorporation.ca

Bronze sponsors:

WorleyParsons www.worleyparsons.com

Newalta www.newalta.com

With support by:

The Canadian Brownfields Network (CBN) www.canadianbrownfieldsnetwork.ca

*members of CBN register now for a special ticket price of \$75

GeoEnviroLogic Professional Development Event Update

January 11, 2012

We have been requested to forward the following message to our subscribers.

Please note the following workshop has been rescheduled to February 29, 2012

Update on BC Contaminated Site Regime: Interpreting Requirements under New Policies and Guidance

A One-Day Contaminated Sites Workshop

Venue: UBC Downtown Campus/Robson Square, Vancouver

This workshop provides an annual update on new aspects of the BC contaminated site regime. In past years, it has proven to be an excellent forum for peer discussion of these new policies, guidance and procedures, and for sharing of possible approaches and solutions. The workshop is valuable for contaminated site practitioners, regulators and site owners. Presentations and the leading of discussion are provided by senior contaminated site specialists, Approved Professionals and regulatory staff.

A tentative list of this year's workshop topics include:

- Update on Technical Guidance 6 - drinking water policy for groundwater
- Soil vapour investigation, remediation and risk assessment issues
- Selection of PCOCs for risk assessment
- Update on municipal development authorization under the Ministry of Environment's site profile "release" procedure
- Preapproval Procedure for Roster Review under Protocol 6
- Application of statistics to soil, sediment and groundwater contamination

REGISTER NOW at: www.GeoEnviroLogic.ca

Early Bird Discount and **Group Discount** are available.

GeoEnviroLogic PD Team

[GeoEnviroLogic Announcement: 2012 Season Workshops](#)
[January 5, 2012](#)

We have been requested to forward the following message to our subscribers.

GeoEnviroLogic Professional Development is proud to present the 9th annual February Workshop Series on Contaminated Sites Issues for practitioners, site owners/managers, regulators, planners and others. This February, we offer two workshops, which may be taken together or separately. Both workshops are taught by senior contaminated experts and provide ample opportunity for participation through examples and group discussions.

February 15 and 16 ~ Beyond Data: Better Investigations – Better Results

A Two-Day Contaminated Sites Workshop

Venue: BCIT Downtown Campus, Vancouver

Beyond Data takes investigation and interpretation of site contamination to a new level, giving you an in-depth understanding of what really matters – the use of a Conceptual Site Model. How many times have you wrestled with an environmental report that merely repackages a lab report with no understanding of the data – no inclination that the lights are on or that anyone is at home? How can you expect to pick an effective remediation solution, let alone a cost-effective solution?

“Beyond Data” helps you get beyond the data and into the world of the conceptual site model (“CSM”). Learn to develop a CSM from the get-go. Use your CSM to develop focused investigations with meaningful conclusions. Gather the information needed for successful remediation. This highly interactive two-day workshop uses many real world examples and the latest concepts in adult learning to put you into the critical learning zone, gaining competency in the assessment and interpretation of environmental data, and in the communication of your findings. Working in small groups, you will draw stratigraphic cross-sections, post and contour data, examine fate and transport processes, think, hypothesize, test and write. Through strategically linked lecturettes, you will gain an understanding of current and innovative approaches to site investigation, risk management and cleanup.

Workshop Topics include:

- Importance of a Robust Conceptual Site Model
- Sources of Site Contamination
- Site Stratigraphy
- Hydrogeology
- Chemical Fate and Transport Processes

- Data Quality
- Preparing Effective Discussion Sections
- Writing Effective Conclusions and Recommendations
- Overview of Remedial Approaches and Options

February 22 ~ Update on BC Contaminated Site Regime: Interpreting Requirements under New Policies and Guidance

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### ***Mark Your Calendar Now! Pre Announcement of Upcoming Events:***

**April 18 and 19** ~ Understanding Environmental Site Investigations: Contaminated Site Model and Robust Site Characterization

A Two-Day Contaminated Sites Workshop

**April 25** ~ Sediment Solutions - Planning, Investigating and Assessing Risks at Contaminated Sediment Sites

A One-Day Contaminated Site Workshop

**May 29 and 30** ~ Human Health and Ecological Risk Assessment: Fundamentals and Beyond

A Two-Day Contaminated Site Workshop

**May 31, 2012** ~ 7th Annual Risk Symposium: A Professional Forum for Discussion on Current  
Risk Assessment Topics  
A One-Day Contaminated Site Workshop

*Looking forward to seeing you at our workshops in 2012*  
*GeoEnviroLogic PD Team*