

# LAND REMEDIATION SECTION UPDATE

Peggy Evans  
Land Remediation Section  
Environmental Protection Division

Contaminated Sites Approved  
Professionals Society Workshop  
October 28, 2015



Ministry of  
Environment

# OVERVIEW

- LRS Staffing Changes
- 2015/2016 Initiatives
- Looking Ahead
- Website

Ministry of Environment

## B.C. to move ahead on world-leading spill response

### Share



### Release

Monday, June 15, 2015 1:00 PM

MEDIA ASSETS

### More from this Ministry

- Factsheets
- Visit Ministry Website

### Popular Topics

- Mount Polley Tailings Dam Breach
- Climate Leadership Plan
- Water Sustainability Act
- Park boundary proposals
- Land-based spill responses & preparedness in B.C.

### Services

- BC Parks
- Report all Polluters and Poachers



BC Government  
Minister Polak - World-leading spill response - Ju...

SOUNDCLLOUD



[Cookie policy](#)

VANCOUVER - After two years of engagement with industry, First Nations and local government, British Columbia is moving forward with plans for a world-leading land-based spill regime.

The new regime will ensure an effective response to any land-based spill of any



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# STAFFING CHANGES

		Mike Macfarlane (Acting) Exec Director <i>EELR Branch</i>	Carolyn Parkinson	
		Peggy Evans (Acting) Director <i>Land Remediation</i>	Michele Parker	
Alan McCammon <i>Remed'n Assur. &amp; Brownfields</i>	Peter Kickham <i>RA &amp; Remed'n</i>	Peggy Evans (Base) <i>RA &amp; Remed'n</i>	Danielle Grbavac Christina Sinnemann (Acting) <i>Ops Management</i>	Glyn Fox <i>Science &amp; Stds</i>
Kerri Skelly	Julia Brooke	Steve Dankev	Vacant (Tyler O'Grady)	Remi Odense
Janet Barrett	Amy Sloma	Lavinia Zanini	Kelli Larsen	Lizzy Mos
Vince Hanemayer	Liliana Jerade	Heather Osachoff	Christina Sinnemann (Base)	Jennifer Puhallo
Lucy Hewlett	Aimee Brisebois	Annette Mortensen		George Szefer
Jennifer Samways		Ardith Gingell		Taylor Hinds Co-op
				Sydney Love Co-op

# 2015/16 INITIATIVES

1. Finalize draft documents posted for comment
2. Draft Protocol 5
3. Tech Guidance 4
4. Site Profiles and CSRA Intentions Papers
5. Brownfields Strategy 2.0
6. Residential UST Strategy
7. Land Remediation Fund Review
8. Omnibus
9. Interim Approval Process for Hazardous Waste

# 2015/16 INITIATIVES – STATUS OF DRAFT DOCUMENTS

## Call for Review and Comment - 12 Draft Documents

The Land Remediation Section has released drafts of 12 new and updated documents listed below for public review. *Please send your comments on any specific document to the e-mail address beside that document's title, by March 20, 2015.*

<u>Document</u>	<u>Send Comments to:</u>
<b>Protocols</b>	
06. <u>Eligibility of Applications for Review by Approved Professionals</u> UPDATE	<a href="mailto:Mike.Macfarlane@gov.bc.ca">Mike.Macfarlane@gov.bc.ca</a>
21. <u>Water Use Determination</u> NEW	<a href="mailto:Annette.Mortensen@gov.bc.ca">Annette.Mortensen@gov.bc.ca</a>
<b>Procedures</b>	
08. <u>Definitions and Acronyms for Contaminated Sites</u> UPDATE	<a href="mailto:Mike.Macfarlane@gov.bc.ca">Mike.Macfarlane@gov.bc.ca</a>
09. <u>Procedures for Processing Site Profiles</u> UPDATE	<a href="mailto:Kelli.Larsen@gov.bc.ca">Kelli.Larsen@gov.bc.ca</a>
12. <u>Procedures for Preparing and Issuing Contaminated Sites Legal Instruments</u> UPDATE	<a href="mailto:Peter.Kickham@gov.bc.ca">Peter.Kickham@gov.bc.ca</a>
<b>Administrative Guidance</b>	
06. <u>Site Profile Decisions and Requesting Releases Where Local Government Approvals are Required</u> UPDATE	<a href="mailto:Kelli.Larsen@gov.bc.ca">Kelli.Larsen@gov.bc.ca</a>
14. <u>Performance verification Plans, Contingency Plans and Operations and Maintenance Plans</u> UPDATE	<a href="mailto:Glyn.Fox@gov.bc.ca">Glyn.Fox@gov.bc.ca</a>
15. <u>Approvals Not to Delineate or Remediate the Entire Extent of Contamination at a Site</u> NEW	<a href="mailto:Peggy.Evans@gov.bc.ca">Peggy.Evans@gov.bc.ca</a>
16. <u>Approved Professionals Role in the Administration of Site Profile Releases – Scenarios 3, 4 and 5</u> NEW	<a href="mailto:Kelli.Larsen@gov.bc.ca">Kelli.Larsen@gov.bc.ca</a>
17. <u>Completing Summary of Site Condition</u> NEW	<a href="mailto:Dave.Lockhart@gov.bc.ca">Dave.Lockhart@gov.bc.ca</a>
<b>Technical Guidance</b>	
06. <u>Assessment of Aquifer Yield for Water use Determinations</u> UPDATE	<a href="mailto:Annette.Mortensen@gov.bc.ca">Annette.Mortensen@gov.bc.ca</a>
22. <u>Use of Monitored Natural Attenuation for Groundwater Remediation</u> NEW	<a href="mailto:Steve.Dankevy@gov.bc.ca">Steve.Dankevy@gov.bc.ca</a>
Find all Previous Requests for Comments here.	

Protocol 6

AG15

TG22

Contact:

Christina  
Sinnemann

# PROTOCOL 6 – ADDITIONAL CHANGES

## Change

- Risk Based CSRAs no longer allowed

## Clarifications

- AiP 5 year timeline reinstated (from draft Procedure 12)
- Requirements for non-RPs to delineate/remediate within affected property boundaries only
- Requirement for RPs to seek director's approval for "part site" applications (i.e. if entire area of contamination is **NOT** included in the contaminated site instrument application or applications)
- Footnotes added to Table 2 (Director's preapprovals):
  - Director's approval is required for background soil and GW determinations
  - Director's prior approval is required for in-situ HW management facilities (HWR)
- **Contact: Christina Sinnemann**

# 2015/16 INITIATIVES – PROTOCOL 5 & TECH GUIDANCE 4

## **Protocol 5** – *Groundwater Remediation Requirements for Protecting Drinking, Irrigation and Livestock Water Uses*

- CSAP P5 Working Group Recommendations under review
- Revised Draft P5 target completion date – early 2016
- **Contact – Steve Dankevych or Annette Mortensen**

## **Technical Guidance 4** – *Soil Vapour Guidance*

- Draft Protocol 22 – *Characterizing and Remediating Vapour Contamination*
- Adjustment of the default vapour attenuation factors for assessment of underground parkades
- Tech Guide 4 – *Vapour Investigation and Remediation*

**Contact – Janet Barrett or Peter Kickham**



# 2015/16 INITIATIVES – SITE PROFILES & CSRAS

## **Site Profile Intention Paper**

- Renamed “Identification of Potentially Contaminated Sites”
- **Contact - Kelli Larsen**

## **Contaminated Soil Relocation Agreements Intention Paper**

- Renamed “Prevention of Site Contamination from Soil Relocation”
- **Contact - Kerri Skelly**

## **Next Steps**

- Intentions papers incorporating public comment on previous discussion documents undergoing internal ministry review
- October 22<sup>nd</sup> – CS e-link to summary response documents
- Expect to post for public comment – circa January 2016

# 2015/16 INITIATIVES – BROWNFIELDS

## Brownfields

- In 2014 the provincial lead on Brownfields remediation/redevelopment transferred from MFLNRO to MoE LRS
- LRS is reviewing 2008-2014 accomplishments/lessons learned from Provincial Brownfield Program
- LRS will use the review in developing proposals for an updated Brownfield Strategy
- **Contact – Alan McCammon**

# LOOKING AHEAD

- CSR legislative initiatives:
  - Omnibus Std Updating (Stage 10 Amendment)
  - HWR, CSR amendments – delink regulations
  - Brownfields strategy – draft intentions papers
  - Land Remediation Fund – review options (link to spills, brownfields & residential USTs)
  - Residential USTs – assess options
  - Review possible amendments to EMA Part 4 & 5 (or separate Land Remediation Act)
- Protocols & Guidance (AG15, P2, P5, TG22, P13)
- Land Remediation Convention (fall 2016)

# WEBSITE

- Old Land Remediation website being dismantled:
- New Site Remediation website

<http://www2.gov.bc.ca/gov/content/environment/air-land-water/site-remediation>

- Old Q&As loaded to new website
- Please notify the ministry of any broken links
- **Contact: Christina Sinnemann**

The background is a solid dark blue. Overlaid on this are several light blue, semi-transparent shapes. There are two large, concentric circles that are not fully closed, creating a frame-like effect. Additionally, there are several organic, brush-stroke-like shapes in a lighter shade of blue, some of which overlap the circles and extend towards the edges of the frame.

# QUESTIONS ?

[Peggy.Evans@gov.bc.ca](mailto:Peggy.Evans@gov.bc.ca)

# CLARIFICATION – ACUTE AND SUBCHRONIC EXPOSURE SCENARIOS IN CSR APPLICATIONS

October 28, 2015

Peter Kickham



Ministry of  
Environment

In 2007 numerical vapour standards were introduced which posed a problem for trench/excavation assessment as they were not addressed in vapour assessment guidance (Technical Guidance 4)

Various attempts to address this issue were made, however ultimately the Ministry has elected to drop this requirement.

# RECENT DEVELOPMENTS

## ***CS e-Link Message*** - Trench worker exposure scenario

- Refers to “trench and Excavation workers”.

## Update to Technical Guidance 7

- Refers to “trench workers” only
- This has generated confusion in the professional community.



## CURRENT POLICY

If worker exposure is anticipated to be acute or sub-chronic in duration (less than 90 days) – no requirement to include in a HHRA to demonstrate compliance with CSR. These exposures are considered to be regulated by Worksafe BC.

If worker exposure is anticipated to be chronic (greater than 90 days) it must be included in an application for a CSR legal instrument (e.g., IL, CL workers, or subsurface workers if the exposure period greater than 90 days).

## CURRENT POLICY

For due diligence, it may be prudent to complete a trench/excavation worker assessment outside of a CSR application; particularly for property affected by migration of contamination.

# Questions

Peter.Kickham@gov.bc.ca

Or find me at Mahoney & Sons after  
the meeting.



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