

LAND REMEDIATION SECTION UPDATES

GLYN R. FOX
HEAD, SCIENCE & STANDARDS

5th SABCS Conference on Contaminated Sites
September 24, 2015



Ministry of
Environment

Overview

LRS Staffing Changes

Status of Initiatives:

1. 12 Documents
2. P21, P5 and TG 22
3. Intentions Papers (Site Profiles and CSRA)
4. Brownfields
5. Legislative Planning
6. Omnibus

LRS STAFFING CHANGES

Environmental Protection Division
Environmental Emergencies & Land Remediation Branch
Land Remediation Section

October 1, 2015

Mike Macnamara
A/Executive Director
Environmental Emergencies &
Land Remediation
SL
Victoria
00075194

Peggy Evans
A/Director, Land Remediation
Vacant - base
BL
Victoria
00073798

Carolyn Parkinson
Senior Admin Assistant
CS R11
Victoria
00039987

Admin Assistant
Michele Parker
CS R9
Victoria
00039562

Mgr Remediation Assurance &
Brownfields
Alan McCammon
BL
Surrey
00083183

Mgr Risk Mgmt and
Remediation
Peter Kickham
BL (0.9FTE)
Surrey
00039890

Mgr Risk Mgmt and
Remediation
Vacant (Peggy Evans' base)
BL
Victoria
00078825

Mgr. Operations Management
Vacant maternity leave
(Danielle Grbac's base)
BL
Victoria
00039435

Head, Science & Standards Unit
Glyn Fox
SO N30
Victoria
00039986

Senior Contaminated Sites
Officer
Kerri Skelly
STO N24 (0.9 FTE)
Surrey
00098342

Senior Contaminated Sites
Officer
Julia Brooke
LSO 4
Victoria
00038593

Senior Contaminated Sites
Officer
Stephen Dankev
LSO 4
Surrey
00038375

Senior Contaminated Sites
Officer
Kelli Lynne Larsen
STO N24 (0.6 FTE)
Surrey
00069929

Senior Risk Assessment Officer
Remi Odense
BIO N27
Victoria
00077245

Senior Contaminated Sites
Officer
Janet Barrett
LSO 4 (0.6 FTE)
Surrey
00057844

Senior Contaminated Sites
Officer
Liliana Jerade
LSO 4
Surrey
00086828

Senior Contaminated Sites
Officer
Lavinia Zanini
LSO 4
Surrey
00039044

Senior Contaminated Sites
Officer
Vacant (Tyler O'Grady base)
STO N24
Surrey
00100986

Senior Risk Assessment Officer
Lizzy Mos
BIO N27
Victoria
00086849

Senior Contaminated Sites
Officer
Vince Hanemayer
LSO 4
Surrey
00039043

Senior Risk Assessment Officer
Aimee Brisebois
BIO N27
Surrey
00038988

Senior Risk Assessment Officer
Heather Osachoff
BIO N27
Surrey
00068234

Senior Policy Analyst
Christina Sinnemann
PA R27
Victoria
000951148

Senior Contaminated Sites
Officer
George Szefer
LSO 4
Surrey
00060081

Team Lead,
SITE Administration
Lucy Hewlett
AO R14
Victoria
00061021

Senior Contaminated Sites
Officer
Amy Sloma Senior
LSO 4
Victoria
00039999

Senior Contaminated Sites
Officer
Annette Mortensen
LSO 4
Victoria
00105379

Senior Risk Assessment Officer
BIO N27
Jennifer Puhallo
Kamloops
00109618

SITE Information Advisor
Jennifer Samways
CLK R11
Victoria
00098604

Senior Contaminated Sites
Officer
Ardith Gingell
STO N24
Victoria
00092006

Taylor Hinds
Co-op Student
Victoria
00157383

Sydney Love
Co-op Student
Surrey
00157384

LRS INITIATIVES – 12 DOCUMENTS

12 Documents CS e-link

Land Remediation Documents Released for Review and Comment

January 12, 2015

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.

- [View the 12 draft documents](#)
- [View previous Requests for Comments](#)

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

Find all [Previous Requests for Comments](#) here.

Contact

Christina
Sinnemann



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LRS INITIATIVES – P 21, P5 AND TG22

Protocol 21 ver. 1 dft. 10 – Water Use Determination

- Replaces Tech Guidance 6
- Expect P21 approval – Fall 2015
- Meantime P21 dft. 10 “in effect” (see Aug 5, 2015 CS e-link)
- **Contact – Annette Mortensen or Amy Sloma**

Protocol 5 - Groundwater Remediation Requirements for Protecting Drinking, Irrigation and Livestock Water Uses

- LRS reviewing CSAP P5 Working Group Recommendations
- Revised P5 target completion date – 2015 year end ?
- **Contact – Steve Dankevych or Annette Mortensen**

Technical Guidance 22 – Using Monitored Natural Attenuation and Enhanced Attenuation for Groundwater Remediation

- LRS reviewing public comment on TG 22 V1 Dft 15
- TG 22 to be finalized in conjunction with P5
- Revised TG 22 target completion date – 2015 year end ?
- **Contact – Steve Dankevy or Annette Mortensen**

Site Profiles

- Renamed “Identification of Potentially Contaminated Sites”
- Intentions paper incorporating public comment on previous discussion document undergoing internal ministry review
- Expect to post for public comment – circa November 2015
- **Contact - Kelli Larsen**

Contaminated Soil Relocation Agreements

- Intentions paper incorporating public comment on previous discussion document undergoing internal ministry review
- Expect to post for public comment – circa November 2015
- **Contact - Kerri Skelly**

Brownfields

- Provincial lead on Brownfields Remediation/redevelopment transferred from MFLNRO to MoE LRS in 2014
- 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**

LRS INITIATIVES – LEGISLATIVE PLANNING

Legislative Initiatives

- Legislative focus for 2015 is Omnibus Std Updating (Stage 10 Amendment)
- Legislative focus for 2016 will be on developing discussion documents and drafting intentions papers related to longstanding CSR legislative initiatives:
 - Discussing Bill 13 provisions
 - Gauging support for a possible Land Remediation Act
 - Preparing intentions papers for possible amendments to EMA Part 4 & 5
 - Drafting intentions papers related to a new Brownfields strategy
 - Assessing options related to UST management

• Funding

- As a parallel imitative to the “New World Class Spill Response” initiative for the Province, our Branch is exploring the possibility of a joint “Spill Response and Land Remediation” Fund

Contact – Christina Sinnemann

Ministry of Environment

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

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Release
Monday, June 15, 2015 1:00 PM
MEDIA ASSETS

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• Park boundary proposals
• Land-based spill responses & preparedness in B.C.

Services
• BC Parks
• Report all Polluters and Poachers



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

LRS INITIATIVES – OMNIBUS UPDATING OF STANDARDS

Stage 10 CSR Amendment - Omnibus

Public comment period for Omnibus Discussion Documents (Proposal Papers) closed August 28, 2015

- 299 comments received from:

BCBC	BCELTAC	BC MoH	CAPP	CARO
CFA	City of Surrey	City of Vancouver	CSAP	DFO
EC	HC	Metro Vancouver	OGC	SABCS
SNC Lavalin	Synergy Aspen	TECK	UDI	etc.

- “Response to Comments” document being compiled
- 1st Nations Stakeholder consultation process initiated
- Request for Drafting Lawyer initiated
- Finalizing Proposal Papers as Derivation “Protocol Papers” initiated

LRS INITIATIVES – OMNIBUS UPDATING OF STANDARDS

Stage 10 CSR Amendment – Common Endorsed Elements

Unanimous support for:

- ongoing fixed cycle of standards updating
- new High Density Residential Land Use standards
- new Parkade Vapour standards

Strong support for:

- converting aesthetic-based DW to new toxicologically-based DW standards
- new Sch X (soil) and Sch W (water) formats
- WL modified regression derivation method
- deferring updating of IW and LW standards to next cycle
- deferring updating of sediment standards to next cycle
- eliminating Sch 7 CSRA standards/use all CSR standards to determine need for CSRA
- updating the Sch 10 Soil and DW standards

LRS INITIATIVES – OMNIBUS UPDATING OF STANDARDS

Stage 10 CSR Amendment – Common Concerns

- timeline to complete Stage 10 amendment
- want an opportunity for further consultation on actual calculated standards
- will Analytical methods (for emerging toxicants) be available
- will Background and Detection Limits checks be retained
- must have a “grandfathering period” re: Stage 10 implementation
- Concerns re: Consistency between Health Canada DW (tox-based) guidelines and new CSR updated tox-based DW standards
- want to see/review the Emerging Toxicants list
- want to see/review the TRV list
- Concerns re: hierarchy of TRV sources
- transparency/documentation of new derived standards
- will Clinical Adjustment Factors be retained for arsenic, cadmium and lead

LRS INITIATIVES – OMNIBUS UPDATING OF STANDARDS

Stage 10 CSR Amendment – Common Concerns

- GW model and soil to GW to protect DW standards – too conservative
- ETs for human health standards – too conservative
- Concerns for WL standards
 - EC15 level of protection - too conservative
 - Concern with using combined lethal and non-lethal ECx data to set WL standards
 - New WL standards will increase cost of site assessment and remediation
 - Little support for human health WL vapour standards
 - Need for more clarity re: application of WL vs. Urban Park standards in cities
- scope and timing of Consequential Amendments to HWR and OMRR
- Controversy re: possible adoption of CCME PHC analytical methodology, derivation approach and guidelines versus retaining the existing BC PHC analytical methodology, derivation approach and standards
- Concern with enforcement of HDR prohibitions (e.g. no playgrounds and 3 story rule)

LRS INITIATIVES – OMNIBUS UPDATING OF STANDARDS

Short Term Next Steps – Dates ?

- Response to Comments finalized – mid-October
- Final Protocol Papers – end of November
- “Number crunching” – to start: mid-October
– complete by: mid-December
- 1st Nations consultation – complete by: end of November



STAY TUNED!

QUESTIONS ?

GLYN FOX

GLYN.FOX@GOV.BC.CA OR (250) 356-8374