



**Instructions**

You must complete and sign the following Site Risk Classification Report form (and where required the Exposure Pathway Questionnaire in Part 8 of the form) and send it to the Ministry of Environment when required under Protocol 12, "Site Risk Classification, Reclassification and Reporting." That document appears on our website at:

[http://www.env.gov.bc.ca/epd/remediation/policy\\_procedure\\_protocol/protocols/pdf/protocol12-final.pdf](http://www.env.gov.bc.ca/epd/remediation/policy_procedure_protocol/protocols/pdf/protocol12-final.pdf).

**Where to send Site Risk Classification Reports for source parcels**

**Notifications of Independent Remediation and Offsite Migration**

Site Risk Classification Reports which are required to be submitted with a Notification of Independent Remediation initiation or Notification of Likely or Actual Offsite Migration must be sent at the time those forms are submitted, to:

Director of Waste Management  
c/o Site Information Advisor  
Ministry of Environment  
PO Box 9342 Stn Prov Govt  
Victoria, B.C. V8W 9M1

Fax (250) 387-8897  
E-mail: [Advisor.SiteInformation@gov.bc.ca](mailto:Advisor.SiteInformation@gov.bc.ca)

**Required or ordered site investigations<sup>1</sup>**

Site Risk Classification Reports which are required to be submitted in response to a requirement or order for a site investigation report by the Director must be sent at the time the site investigation report is submitted, to:

Director of Waste Management  
c/o Site Profile Administration  
Ministry of Environment  
#200 - 10470 - 152nd Street  
Surrey BC V3R 0Y3

Fax (604) 584-9751  
E-mail: [siteprofiles@gov.bc.ca](mailto:siteprofiles@gov.bc.ca)

**Contaminated Sites Service Applications**

Site Risk Classification Reports which are required to be submitted with an application to the Director of Waste Management for a contaminated sites service must be sent with the Contaminated Sites Service Application form to:

Director of Waste Management  
c/o Client Information Officer  
Ministry of Environment  
PO Box 9342 Stn Prov Govt  
Victoria, B.C. V8W 9M1

Fax (250) 387-8897  
E-mail: [csp\\_cio@Victoria1.gov.bc.ca](mailto:csp_cio@Victoria1.gov.bc.ca)

**Site Risk Classification Reports Required by a Director**

Site Risk Classification Reports which are required to be submitted directly to a Director of Waste Management must be sent by the time the Director has specified, to:

Director of Waste Management  
c/o Site Risk Classification Administration  
Ministry of Environment  
#200 - 10470 - 152nd Street  
Surrey BC V3R 0Y3

Fax (604) 584-9751  
E-mail: [SiteClassification@gov.bc.ca](mailto:SiteClassification@gov.bc.ca)

**Where to send Site Risk Classification Reports for neighbouring parcels**

Site Risk Classification Reports which are submitted in relation to potential or high risk conditions at a neighbouring parcel or area indicated in the Site Risk Classification Report submitted to the Director of Waste Management for a source parcel must be submitted to the Director to the applicable address, fax number or e-mail address above, with the Site Risk Classification Reports for the source site.

<sup>1</sup> This category includes all site investigations required subsequent to the submission of a site profile (including local government release requests) as well as those site investigations required or ordered by the Director separate from the site profile process.

For further information regarding site risk classification, please refer to Fact Sheet 45, "Site Risk Classification" (available at: [http://www.env.gov.bc.ca/epd/remediation/fact\\_sheets/](http://www.env.gov.bc.ca/epd/remediation/fact_sheets/)) or e-mail us at [SiteClassification@gov.bc.ca](mailto:SiteClassification@gov.bc.ca).



Ministry of  
Environment

## SITE RISK CLASSIFICATION REPORT

Land Remediation Section  
PO Box 9342 Stn Prov Govt  
Victoria B.C. V8W 9M1  
Telephone: (250) 387-4441  
Fax: (250) 387-8897  
E-mail: site@gov.bc.ca

Submission of this report is required by Protocol 12, "Site Risk Classification, Reclassification and Reporting" under the *Environmental Management Act*.

### Part 1. Land, owner and agent information

#### Section I Land Description

Site ID Number (if known)

PID

or

PIN

Is the land part of a site?

yes

no

If the answer is "yes" please provide details:

Legal Description

Latitude

Degrees

Minutes

Seconds

Longitude

Degrees

Minutes

Seconds

Site Civic Address

Street

City

Postal Code

#### Section II Property Owner and/or Operator (if applicable)

Name

Address

Street

City

Province/State

Country

Postal /Zip Code

Phone

Fax

#### Section III Environmental Consultant / Contractor / Agent Contact (if applicable)

Name

Address

Street

City

Province/State

Country

Postal /Zip Code

Phone

Fax

## Part 2. Site risk classification notification triggers

### Section IV Applicable triggers

Check the applicable triggers for the submission of this Site Risk Classification Report to the Director:

- Notification of Initiation of Independent Remediation
- Site investigation report ordered or required by the Director
- Notification of Likely or Actual Migration
- Ministry service application with the recommendation of an Approved Professional
- Ministry service application without the recommendation of an Approved Professional
- Site Risk Classification Report for a neighbouring site under section 5.4 of Protocol 12
- Site Risk Classification Report otherwise required by a Director

## Part 3. Site investigation status

### Section V Source and affected parcel investigation status

#### A. Adequacy of completed site investigations

Is site information appropriate and satisfactory to determine a site risk classification?  yes  no\*

If no, indicate the scheduled completion date of investigations needed to complete classification below.

#### B. Source parcel investigation status

#### Scheduled Completion Date

- |   |                              |                             |       |
|---|------------------------------|-----------------------------|-------|
| 1. Stage I preliminary site investigation completed?  | <input type="checkbox"/> yes | <input type="checkbox"/> no | _____ |
| 2. Stage II preliminary site investigation completed? | <input type="checkbox"/> yes | <input type="checkbox"/> no | _____ |
| 3. Detailed site investigations completed?            | <input type="checkbox"/> yes | <input type="checkbox"/> no | _____ |
| 4. Migration of contamination identified?             | <input type="checkbox"/> yes | <input type="checkbox"/> no | _____ |

#### C. Affected parcel investigation status

- |   |                              |                             |       |
|---|------------------------------|-----------------------------|-------|
| 1. Stage I preliminary site investigation completed?  | <input type="checkbox"/> yes | <input type="checkbox"/> no | _____ |
| 2. Stage II preliminary site investigation completed? | <input type="checkbox"/> yes | <input type="checkbox"/> no | _____ |
| 3. Detailed site investigations completed?            | <input type="checkbox"/> yes | <input type="checkbox"/> no | _____ |

\* If site information is insufficient to determine the site risk classification, indicate the date by which a completed Site Risk Classification Report will be submitted:

## Section VI High risk conditions details

1. Is mobile NAPL present at the parcel?  yes  no

If yes, describe the mobile NAPL substances and their general location.

2. Are upper cap concentrations exceeded?  yes  no

If yes, what substances exceed upper cap concentrations, in what media? Attach Exposure Pathway Questionnaire

3. Exposure pathways – are the risk criteria for any exposure pathway exceeded?  yes  no  n/a

If yes, which exposure pathways indicate high risk?

## Section VII Site risk classification

high risk  not high risk

*Note that for parcels for which there is insufficient information to determine the site risk classification, additional information must be provided in Part 3 of this report on the scheduled dates for completion of site investigations and resubmission of a completed Site Risk Classification Report.*

## Part 4. Independent remediation status

### Section VIII Independent remediation

Has independent remediation been initiated at the site?  yes  no

Will the independent remediation of high risk conditions be completed within 90 days?  yes  no  n/a

*If independent remediation of high risk site conditions is being carried out and is not completed within 90 days the Director must be provided a revised Site Risk Classification Report and an updated completion of remediation schedule on or before the 90<sup>th</sup> day of independent remediation.*

**Part 5. Affected parcel conditions**

**Section IX Affected parcel high risk conditions details**

1. Is mobile NAPL present or likely present at an affected parcel?  yes  likely  no

If yes or likely, describe the mobile NAPL substances and their general location.

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2. Are upper cap concentrations exceeded or likely exceeded?  yes  likely  no

If yes or likely, what substances exceed or are likely to exceed upper cap concentrations, and in what media? Attach Exposure Pathway Questionnaire.

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3. Are high risk exposure pathways present or likely present?  yes  likely  no

If yes or likely, list the exposure pathways which impact or are likely to impact affected parcel receptors.

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4. Are any affected parcels classified as high risk or likely classified as high risk?  yes  no

If yes, list the following for each affected parcel and attach a separate Site Risk Classification Report for each affected parcel that is high risk or likely high risk.

<b>Site ID (if known)</b>	<b>Affected parcel owner</b>	<b>Civic Address</b>
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## Part 8. Exposure Pathway Questionnaire

Property Owner (print name) \_\_\_\_\_ Site ID \_\_\_\_\_

Signature \_\_\_\_\_

		Yes	No	Notes
<b>Human Health Exposure</b>				2, 3, 4
<b>Soil Exposure</b>				
HS-1	Do substances in soil exceed upper cap concentrations (UCs) for human intake of soil for the applicable land use?	<input type="checkbox"/>	<input type="checkbox"/>	5, 6
HS-2	Are UC-contaminated soils located within 1 m of the <i>soil surface</i> ?	<input type="checkbox"/>	<input type="checkbox"/>	7
HS-3	Does the area of UC contaminated soil exceed 50 m <sup>2</sup> on urban park, agricultural or residential lands or 125 m <sup>2</sup> on commercial or industrial lands?	<input type="checkbox"/>	<input type="checkbox"/>	8
HS-4	Is the site land use urban park, agricultural, residential, commercial or industrial (i.e. not <i>wildlands</i> )?	<input type="checkbox"/>	<input type="checkbox"/>	
HS-5	If the site land use is <i>wildlands</i> , are humans present on the site for greater than 2 hours/day, 1 day/week?	<input type="checkbox"/>	<input type="checkbox"/>	9
<b>Vapour Exposure</b>				
HV-1	Do substances in air or soil vapour exceed UC concentrations for human inhalation for the applicable land use?	<input type="checkbox"/>	<input type="checkbox"/>	5, 6, 7, 10
HV-2	Is the site land use urban park, agricultural, residential, commercial or industrial?	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Water Exposure</b>				
HW-1	Does drinking water use apply to groundwater or surface water at the site?	<input type="checkbox"/>	<input type="checkbox"/>	11
HW-2	Do substances in groundwater exceed 10 times UC concentrations for drinking water within 10 m of a drinking water well or exceed UC concentrations within the well?	<input type="checkbox"/>	<input type="checkbox"/>	6, 12
HW-3	Do substances in surface water exceed 10 times UC concentrations for drinking water within 100 m upstream of a drinking water intake or exceed UC concentrations at the intake?	<input type="checkbox"/>	<input type="checkbox"/>	6
<b>Environmental Health Exposure</b>				2, 3, 4
<b>Terrestrial Soil Exposure</b>				
TS-1	Do substances in soil exceed UC concentrations for toxicity to invertebrates and plants for the applicable land use?	<input type="checkbox"/>	<input type="checkbox"/>	5, 6
TS-2	Are UC contaminated soils within 1 m of the <i>soil surface</i> ?	<input type="checkbox"/>	<input type="checkbox"/>	7
TS-3	Is the soil surface above UC contaminated soil <i>undeveloped land</i> ?	<input type="checkbox"/>	<input type="checkbox"/>	
TS-4	Is the area identified in TS-3 <i>terrestrial habitat</i> ?	<input type="checkbox"/>	<input type="checkbox"/>	
TS-5	Does the area of UC contaminated soil exceed 100 m <sup>2</sup> on urban park, agricultural or residential lands or 250 m <sup>2</sup> on commercial or industrial lands or 500 m <sup>2</sup> on <i>wildlands</i> ?	<input type="checkbox"/>	<input type="checkbox"/>	8, 16
<b>Aquatic Life Water Exposure</b>				
AW-1	Does aquatic life water use apply to groundwater or surface water at the site?	<input type="checkbox"/>	<input type="checkbox"/>	11
AW-2	Do substances in groundwater within 10 m of the <i>high water mark</i> of an <i>aquatic habitat</i> exceed the UC concentrations for aquatic life water use?	<input type="checkbox"/>	<input type="checkbox"/>	12, 13
AW-3	Do substances in surface water or unauthorized discharges to surface water exceed UC concentrations for aquatic life water use?	<input type="checkbox"/>	<input type="checkbox"/>	14
<b>Aquatic Life Sediment Exposure</b>				
AS-1	Do substances in the upper 1 m of sediment exceed the UC concentrations for the applicable site sensitivity?	<input type="checkbox"/>	<input type="checkbox"/>	6, 15
AS-2	Does the area of UC-contaminated sediment exceed 50 m <sup>2</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	8
<b>Livestock and Irrigation Water Exposure</b>				
LIW-1	Do livestock or irrigation water uses apply to groundwater or surface water at the site?	<input type="checkbox"/>	<input type="checkbox"/>	9, 10
LIW-2	Do substances in groundwater exceed 10 times applicable UC concentrations within 10 m of the water supply well or exceed applicable UC concentrations in the well?	<input type="checkbox"/>	<input type="checkbox"/>	4, 11, 12
LIW-3	Do substances in surface water exceed 10 times applicable UC concentrations within 100 m upstream of a drinking water intake or exceed applicable UC concentrations at the intake?	<input type="checkbox"/>	<input type="checkbox"/>	

## Exposure Pathway Questionnaire Notes

1. Pathways leading to classification of high risk (where yes answer is given for sequential risk criteria, except where indicated otherwise):
  - HS-1* ⇔ *HS-2* ⇔ *HS-3* ⇔ *HS-4* = *HR*
  - HS-1* ⇔ *HS-2* ⇔ *HS-3* ⇔ *HS-4* (No) ⇔ *HS-5* = *HR*
  - HV-1* ⇔ *HV-2* = *HR*
  - HW-1* ⇔ *HW-2* = *HR*
  - HW-1* ⇔ *HW-3* = *HR*
  - TS-1* ⇔ *TS-2* ⇔ *TS-3* ⇔ *TS-4* ⇔ *TS-5* = *HR*
  - AW-1* ⇔ *AW-2* = *HR*
  - AW-1* ⇔ *AW-3* = *HR*
  - AS-1* ⇔ *AS-2* = *HR*
  - LIW-1* ⇔ *LIW-2* = *HR*
  - LIW-1* ⇔ *LIW-3* = *HR*
2. Environmental site investigations must be carried out in accordance with ministry procedures and guidance and standard professional practice.
3. The assessment of exposure pathways pertains to contamination arising from the parcel or parcels under investigation. Where contamination originating from the parcel under investigation has migrated off of the parcel the evaluation of exposure pathways pertains to contamination originating from the site under investigation. Co-contamination of affected lands that preclude the evaluation of exposure pathways associated with the source parcel must be identified in supporting technical reports.
4. Terms in italics are listed in section 1.0 (definitions) of this protocol.
5. Applicable land uses are as defined in the Contaminated Sites Regulation (agricultural, urban park, residential, commercial, industrial and wildlands).
6. Ministry's UC concentrations are provided in Protocol 11 "Upper Cap Concentrations for Substances Listed in the Contaminated Sites Regulation".
7. Where concentrations occur above UC concentrations, cross-sections are required to support conclusions that UC contamination is located at depths greater than 1 m below soil surface.
8. Where concentrations occur above UC concentrations, contour maps are required to support conclusions of the areal extent of UC contamination. "Areal extent" refers to the total combined areal extent of UC contaminated soil at a site, contiguous or non-contiguous.
9. Human exposure on wildlands sites during limited periods of the year (i.e. hunting camps) may be compared to the prescribed exposure threshold of 2 hours/day, 1 day/week by averaging total annual exposure over a 12 month period. Actual human exposure must be indicated in supporting technical reports.
10. Soil vapour investigations must follow Technical Guidance 4 for Contaminated Sites – Vapour Investigation and Remediation
11. Applicable groundwater use must be determined in accordance with Technical Guidance document 6, "Water Use Determination" and ministry procedures and guidance.
12. Where groundwater concentrations exceed UC concentrations near a groundwater receptor (e.g., drinking water well), contour maps and cross-sections are required to support conclusions of UC-contaminated groundwater located outside 10 m of the correspondent receptor.
13. Where groundwater concentrations exceeding UC concentrations for aquatic life have not been delineated to within 10 m of the high water mark of an aquatic habitat, groundwater concentrations at wells installed nearest 10 m from the high water mark are considered representative of concentrations at that point.
14. Unauthorized discharges are discharges of site surface water (including storm water and drainage ditches) above UC concentrations into an aquatic habitat that are not authorized under the Act.
15. Sediment sensitivity must be determined in accordance with Technical Guidance 19, "Assessing and Managing Contaminated Sediments".
16. Area threshold assumes site contamination is surrounded by the same land use.