



PRELIMINARY DETERMINATION
(Pursuant to Section 44 of the *Environmental Management Act*)

I have made a Preliminary Determination that the site identified in Schedule A of this document **is not** a contaminated site.

This Preliminary Determination is qualified by the requirements and conditions specified in Schedule B.

The site does not have concentrations of the substances specified in Schedule C that exceed the applicable standards and criteria prescribed in the Contaminated Sites Regulation for determining whether a site is a contaminated site.

I have issued this Preliminary Determination based on a review of relevant information including the documents listed in Schedule D. I, however, make no representation or warranty as to the accuracy or completeness of that information.

This is to advise that I will consider submissions received 35 days after delivery of this Preliminary Determination before a Final Determination is made.

In accordance with the *Environmental Management Act*, I will notify persons with an interest in the subject site once a Final Determination is made.

This Preliminary Determination should not be construed as an assurance that there are no hazards present at the site.

June 3, 2019

Date Issued

J.A. Brooke

For Director, *Environmental Management Act*

Schedule A

The site covered by this Preliminary Determination is located at 813 Carnarvon Street, New Westminster, British Columbia which is more particularly known and described as:

Lot A, Block 23, Plan EPP28262
PID: 029-174-911

The approximate centre of the site using the NAD (North American Datum) 1983 convention is:

Latitude: 49° 12' 5.90"
Longitude: 122° 54' 50.80"

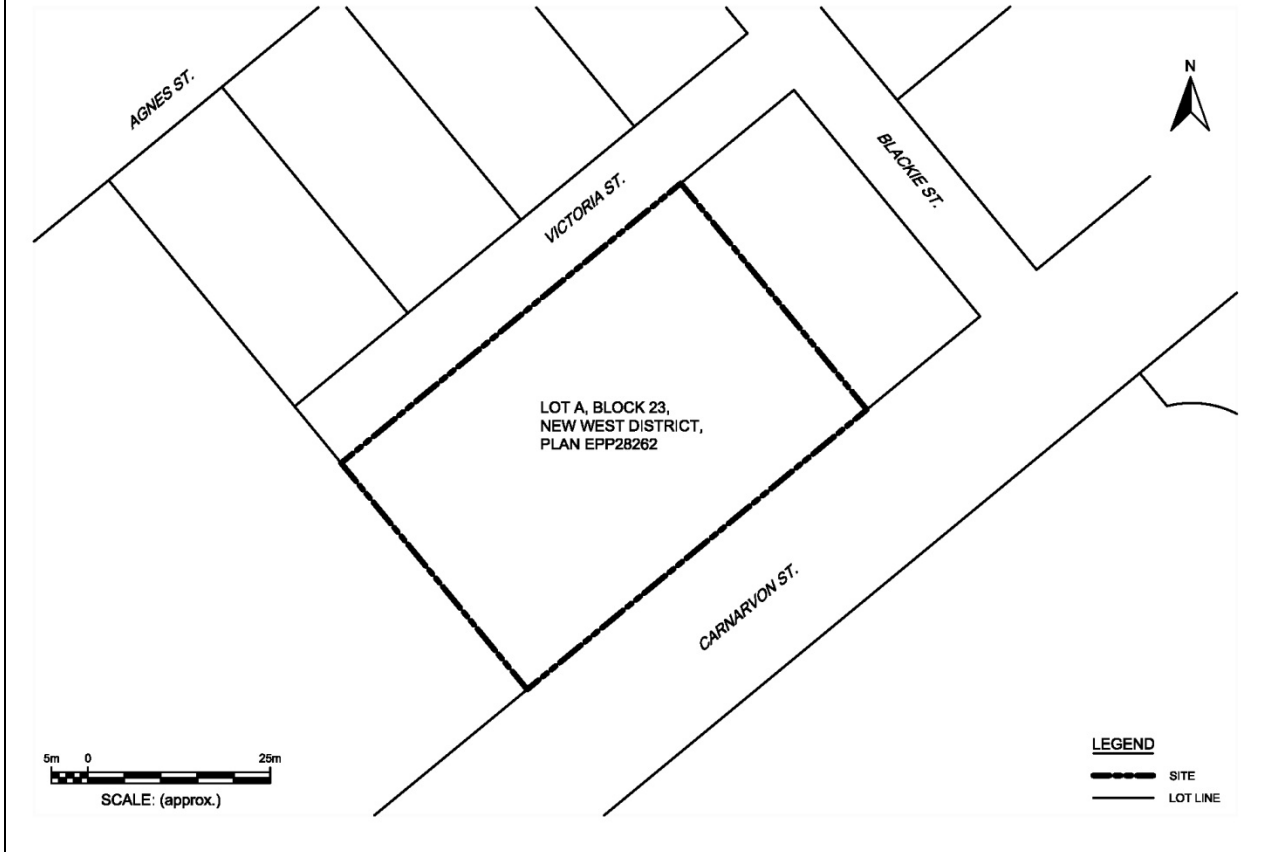
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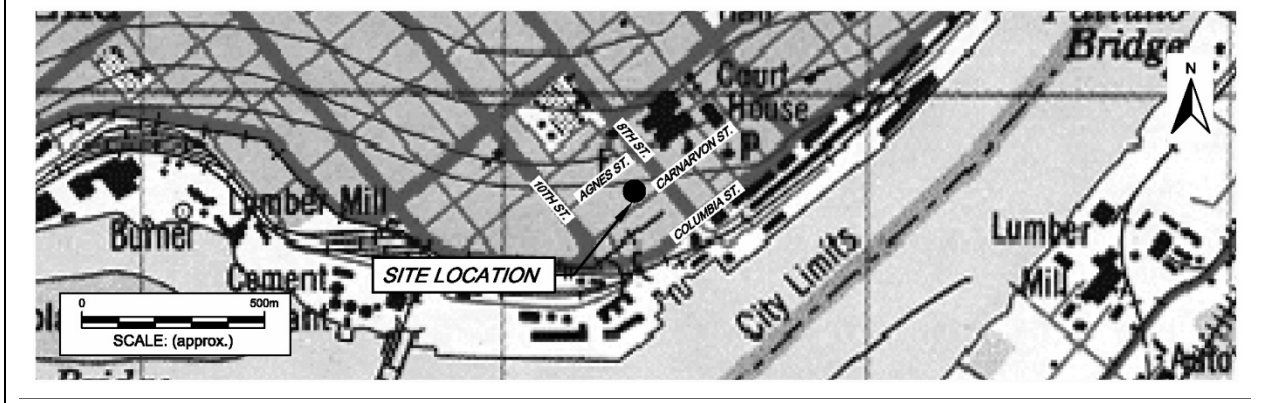


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Site Plan, New Westminster, BC
Site Plan



Location Map, New Westminster, BC



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Schedule B

Requirements and Conditions

1. Any changes in land, vapour, or water uses must be promptly identified by the responsible persons in a written submission to the Director. An application for an amendment or new Determination of Contaminated Site may be necessary. The uses to which this condition applies are described in Schedule C and in the site investigation documents listed in Schedule D.

The documents listed in Schedule D indicate that vapour attenuation factors were applied to meet Contaminated Sites Regulation numerical standards at the site. These vapour attenuation factors were selected based on assumptions about the structures, locations and depths of buildings existing or expected at the site. These assumptions include the following:

- (a) Building foundations will be constructed in accordance with the 2012 or later BC Building Code.

Any inconsistencies that arise between the structures, locations and depths of proposed or constructed buildings at the site and the range of structures, locations and depths of buildings assumed in the selection of vapour attenuation factors in the documents listed in Schedule D must be promptly identified by the responsible persons in a written submission to the Director. An application for an amendment or new Determination of Contaminated Site may be necessary.

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Schedule C

Substances and Uses

Substances evaluated in soil for residential high density land soil use:

To meet numerical standards prescribed for defining whether a site is contaminated:

acenaphthene	83-32-9	antimony	7440-36-0
anthracene	120-12-7	barium	7440-39-3
arsenic	7440-38-2	benz(a)anthracene	56-55-3
beryllium	7440-41-7	benzo[a]pyrene	50-32-8
benzene	71-43-2	benzo(b+j)fluoranthenes	205-99-2&205-82-3
benzo[k]fluoranthene	207-08-9	bromodichloromethane	75-27-4
bromoform	75-25-2	carbon tetrachloride	56-23-5
cadmium	7440-43-9	chromium	7440-47-3
chloroform	67-66-3	2-chloronaphthalene	91-58-7
chrysene	218-01-9	cobalt	7440-48-4
copper	7440-50-8	dibenz[a,h]anthracene	53-70-3
dibromochloromethane	124-48-1	1,2-dichlorobenzene	95-50-1
1,3-dichlorobenzene	541-73-1	1,4-dichlorobenzene	106-46-7
1,1-dichloroethane	75-34-3	1,2-dichloroethane	107-06-2
1,1-dichloroethene	75-35-4	cis-1,2-dichloroethene	156-59-2
trans-1,2-dichloroethene	156-60-5	dichloromethane	75-09-2
1,2-dichloropropane	78-87-5	1,3-dichloropropene (cis+trans)	542-75-6
ethylbenzene	100-41-4	ethylene glycol	107-21-1
fluoranthene	206-44-0	fluorene	86-73-7
HEPHs	NA	indeno(1,2,3-cd)pyrene	193-39-5
lead	7439-92-1	LEPHs	NA
manganese	7439-96-5	1-methylnaphthalene	90-12-0
methyl tert-butyl ether	1634-04-4	mercury	7439-97-6
2-methylnaphthalene	91-57-6	molybdenum	7439-98-7
naphthalene	91-20-3	nickel	7440-02-0
phenanthrene	92-84-2	polychlorinated biphenyls, total	1336-36-3
pyrene	29-00-0	selenium	7782-49-2



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silver	7440-22-4	styrene	100-42-5
tin	7440-31-5	1,1,2,2-tetrachloroethane	79-34-5
tetrachloroethylene	127-18-4	toluene	108-88-3
1,1,1-trichloroethane	71-55-6	1,1,2-trichloroethane	79-00-5
trichloroethylene	79-01-06	trichlorofluoromethane	75-69-4
triethylene glycol	112-27-6	vanadium	7440-62-2
vinyl chloride	75-01-4	VPHs	N/A
xylenes	1330-20-7	Zinc	7440-66-6

Substances evaluated in vapour for residential and parkade vapour use:

To meet numerical standards prescribed for defining whether a site is contaminated:

acetone	67-64-1	benzene	71-43-2
bromobenzene	108-86-1	bromodichloromethane	75-27-4
bromoform	75-25-2	butadiene, 1,3-	106-99-0
butanone, 2-	78-93-3	carbon disulfide	75-15-0
carbon tetrachloride	56-23-5	chlorobenzene	108-90-7
chloroethane	75-00-3	chloroform	67-66-3
chlorotoluene, 2-	95-49-8	dibromochloromethane	75-71-8
dibromo-3-chloropropane, 1,2-	96-12-8	ethyl acetate	140-88-5
n-hexane	N/A	dibromomethane	74-95-3
1,2-dibromoethane	106-93-4	n-decane	N/A
1,3-dichlorobenzene	541-73-1	1,2-dichlorobenzene	95-50-1
dichlorodifluoromethane	75-71-8	1,4-dichlorobenzene	106-46-7
1,2-dichloroethane	107-06-2	1,1-dichloroethane	75-34-3
cis-1,2-dichloroethene	156-59-2	1,1-dichloroethene	75-35-4
dichloropropane, 1,3-	142-28-9	trans-1,2-dichloroethene	156-60-5
dichloropropene, 1,3- (trans)	542-75-6	1,2-dichloropropane	78-87-5
hexachlorobutadiene	118-74-1	dichloropropene, 1,3-(cis)	542-75-6
methylcyclohexane	108-87-2	ethylbenzene	100-41-4
methyl tert-butyl ether	1634-04-4	isopropylbenzene	98-82-8
styrene	100-42-5	methyl-2-pentanone, 4-	108-10-1
1,1,1,2-tetrachloroethane	630-20-6	naphthalene	91-20-3
tetrachloroethylene	127-18-4	trichlorobenzene, 1,2,4-	120-82-1
1,1,1-trichloroethane	71-55-6	1,1,2,2-tetrachloroethane	79-34-5
trichloroethylene	79-01-06	toluene	108-88-3
1,2,4-trimethylbenzene	95-63-6	trichlorofluoromethane	75-69-4



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trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	1,3,5-trimethylbenzene	108-67-8
vinyl chloride	75-01-4	trichloropropane, 1,2,3-	98-18-4
xylenes, total	1330-20-7	VPHv	N/A

Substances evaluated in water for drinking water use:

To meet numerical standards prescribed for defining whether a site is contaminated:

acenaphthene	83-32-9	aluminum	7429-90-5
anthracene	120-12-7	antimony	7440-36-0
arsenic	7440-38-2	barium	7440-39-3
beryllium	7440-41-7	benzo(a)anthracene	56-55-3
boron	7440-42-8	benzene	71-43-2
benzo[a]pyrene	50-32-8	benzo(b+j)fluoranthenes	205-99-2&205-82-3
carbon tetrachloride	56-23-5	cadmium	7440-43-9
chlorobenzene	108-90-7	chromium	7440-47-3
chloroform	67-66-3	chloroethane	75-00-3
cobalt	7440-48-4	copper	7440-50-8
dibenz[a,h]anthracene	53-70-3	dibromomethane, 1,2-	106-93-4
1,2-dichlorobenzene	95-50-1	1,1-dichloroethane	75-34-3
1,4-dichlorobenzene	106-46-7	1,1-dichlorethene	75-35-4
1,2-dichloroethane	107-06-2	trans-1,2-dichloroethene	156-60-5
cis-1,2-dichloroethene	156-59-2	1,2-dichloropropane	78-87-5
dichloromethane	75-09-2	1,3-dichloropropene (cis+trans)	542-75-6
ethylbenzene	100-41-4	ethylene glycol	107-21-1
fluorene	86-73-7	fluoranthene	206-44-0
iron	7439-89-6	lead	7439-92-1
LEPHw	NA	lithium	7439-93-2
manganese	7439-96-5	magnesium	7439-95-4
mercury	7439-97-6	methyl tert-butyl ether	1634-04-4
molybdenum	7439-98-7	naphthalene	91-20-3
nickel	7440-02-0	propylene glycol 1,2-	57-55-6
quinoline	91-22-5	selenium	7782-49-2
silver	7440-22-4	sodium	7440-23-5
strontium	7440-24-6	thallium	7440-28-0
tetrachloroethylene	127-18-4	1,1,2,2-tetrachloroethane	79-34-5



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toluene	108-88-3	1,1,1-trichloroethane	71-55-6
1,1,2-trichloroethane	79-00-5	trichloroethylene	79-01-06
trichlorofluoromethane	75-69-4	triethylene glycol	112-27-6
tungsten	7400-33-7	uranium	7440-61-1
vanadium	7440-62-2	vinyl chloride	75-01-4
VPHw	N/A	xylenes, total	1330-20-7
zinc	7440-66-6		

Substances evaluated in water for aquatic life marine water use:

To meet numerical standards prescribed for defining whether a site is contaminated:

acenaphthene	83-32-9	anthracene	120-12-7
antimony	7440-36-0	arsenic	7440-38-2
barium	7440-39-3	benz(a)anthracene	56-55-3
benzo(a)pyrene	50-32-8	benzene	71-43-2
beryllium	7440-41-7	boron	7440-42-8
cadmium	7440-43-9	carbon tetrachloride	56-23-5
chlorobenzene	108-90-7	chromium	7440-47-3
chloroform	67-66-3	cobalt	7440-48-4
copper	7440-50-8	dichlorobenzene, 1,2-	95-50-1
dichlorobenzene, 1,3-	541-73-1	dichlorobenzene, 1,4-	106-46-7
dichloroethane, 1,2-	107-06-2	dichloroethane, 1,1-	75-34-3
dichloromethane	75-09-2	ethylbenzene	100-41-4
ethylene glycol	107-21-1	EPH _{W10-19}	N/A
fluorene	86-73-7	fluoranthene	206-44-0
lead	7439-92-1	LEPHw	N/A
mercury	7439-97-6	methyl tert-butyl ether	1634-04-4
molybdenum	7439-98-7	naphthalene	91-20-3
nickel	7440-02-0	propylene glycol 1,2-	57-55-6
quinoline	91-22-5	selenium	7782-49-2
silver	7440-22-4	tetrachloroethylene	127-18-4
thallium	7440-28-0	toluene	108-88-3
trichloroethylene	79-01-06	triethylene glycol	112-27-6
uranium	7440-61-1	VH _{W6-10}	N/A
VPHw	N/A	xylenes, total	1330-20-7
zinc	7440-66-6		



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Schedule D

Documents

- *Summary of Site Condition, 813 Carnarvon Street, New Westminster, BC, Keystone Environmental Ltd., January 2019;*
- *Report of Findings – Preliminary Site Investigation Stage 2, Detailed Site Investigation and Confirmation of Remediation, 813 Carnarvon Street, New Westminster, BC, Keystone Environmental Ltd., January 2019;*
- *Report of Findings – Preliminary Site Investigation Stage 1 Update, 813 Carnarvon Street, New Westminster, BC, Keystone Environmental Ltd., October, 2018*
- *Stage 2 Preliminary Site Investigation, 813-819 Carnarvon Street, New Westminster, BC, Next Environmental Ltd., February 2004; and*
- *Stage 1 Preliminary Site Investigation, 813-819 Carnarvon Street, New Westminster, BC, Next Environmental Ltd., September 2001.*

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