

5.2 Potential Contaminant Identification

The site has been previously used as a DEW Line defence/communications center. As a result of operating the site during the early stages of the electronics era, the site is heavily contaminated with PCB's and Heavy Metals.

At no time will on site investigation personnel use olfactory odour or taste identification techniques to identify possible chemical contamination. All identification and quantification shall be done with the use of visual, field instrument, and laboratory techniques.

5.3 Preventing Cross Contamination and Tracking

Cross contamination and tracking of chemicals can pose a safety hazard as well add to project schedule and budget to decontaminate equipment and personnel. All sampling, and excavation equipment shall have precautions taken to minimize exposure to potentially contaminated soil and ground water. Minimization may be in the form of:

- Inspecting PPE to ensure it is in proper condition before each use.
- Closing zippers, buttons, and snaps fully.
- Not wearing leather boots.
- Tucking inner gloves under the sleeves and outer gloves over sleeves.
- Tucking boots under the legs of outer clothing.
- Wearing hoods, if not attached, outside the collar.
- Taping all junctures to help prevent contaminants from running inside gloves, boots, and jackets.
- Follow standard operating procedures (SOP's) regarding decontamination and sampling.
- Minimize the use of porous substances such as wooden tools, leather, foam covered handles, etc. These items are difficult to decontaminate.
- Do not walk through puddles or stockpiled waste material.
- Properly disposing of equipment and solvents used for decontamination.
- Do not directly touch potential hazardous substances.
- Use remote sampling equipment when practical.
- Wear disposable outer garments and use disposable equipment when possible.
- Contain source of hazardous substance.

5.4 Decontamination Procedures

Decontamination of equipment, tools, and personnel will be necessary to prevent cross contaminant of samples, contaminant tracking, and personal hygiene and safety. Decontamination can be accomplished by:

- Physically removing contaminants.

- Chemically removing containments.
- Rinsing off containments.
- Disinfecting and Sterilizing.
- Combining the above methods.

The decontamination at the subject site will utilize a single surfactant/soap wash to clean any necessary sampling equipment. The following generalized decontaminating procedures will be followed during the course of the investigation.

- Personnel shall change gloves regularly during the investigation.
- Heavy equipment shall conduct site work in such a manner that prevents equipment from traveling through, or resting on any drill cuttings. This may include tarping of soils if reentry to investigation area is required.

5.4 Preservation of Site Conditions

The site is situated gravel pad areas built up on the arctic tundra. Travel on the tundra will be on a strictly need to access basis. All site monuments and survey markers will be left in place.

5.5 Working Near Wildlife

A variety of wildlife may be encountered while working within the limits of the site. In particular, polar bears. Since polar bears are extremely unpredictable, all personnel must work within the designated zone where a polar bear monitor (provided by general contractor) is situated. **Under no exceptions are personnel to be out of eye site and protection of polar bear monitor.**

A brief description of polar bear habits is provided within the appendices. At no time are animals encountered on site to be feed.

5.6 Decontamination of Personnel and Equipment

Hands must be washed prior to lunch and nutrition breaks. Equipment used on site shall be decontaminated prior to leaving the premises.

5.7 Record Keeping

The consultant shall keep a record of all health and safety procedures and decontamination practices. All incidents, near misses, and hazard identification shall be recorded. Copies of records will be included in consultants report to the client.

5.8 Insects

All personnel shall take precautions against being bit by flying insects. Bug net jackets and hoods shall be provided as will mosquito repellant with a minimum of 20% DEET. The use of repellant shall be completed under the manufactures instructions.

5.9 Aircraft

All personnel shall conform to Transport Canada rules and regulation for embarking and traveling on aircraft. Detailed guides to both helicopter safety and fixed wing aircraft are included with the appendices of this plan.

5.10 ATV's

All personnel shall conform to the ATV safety manual located in the appendices of this plan. Approved CSA helmets shall be worn while operating or passengering on an ATV.

6.0 EMERGENCY CONTINGENCY PLAN

6.1 Responsibilities

Each member involved in onsite activities shall be responsible for identification of onsite hazards and safety of themselves and others. Each member engaged in onsite work for this project will be responsible for initiating the emergency response plan on an as identified basis.

The General Contractor shall provide emergency plan and mustering point.

6.2 Emergency Response Steps

Should an emergency arise, the following steps are to be taken:

1. Ensure your own safety.
2. Notify other team members of emergency.
3. Call for help.
4. If possible without further endangerment, attempt to assess/address situation and bring under control. Perform First Aid if required.
5. Inform consultant and/or team leader.
6. Inform Client(s).

APPENDIX D

ANALYTICAL RESULTS

FOX C- DEW Line Site
Summary of Analytical Data
Beach Area POL Storage Tanks

Table 1.1: PHC Concentrations in Soils

PARAMETER	DEPTH	CRITERIA (ppm)	BAT-1008 0-25 cm	BAT-1009 10-30 cm	BAT-1010 30-50 cm	BAT-1010 50 cm	BAT-1010 150 cm	BAT-1011 90-120 cm	BAT-1012 80-100 cm	BAT-1013 150 cm	BAT-1014 120-150 cm	BAT-1015 100-120 cm	BAT-1016 60-80 cm
Benzene		0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene		0.8	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ethylbenzene		1.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total Xylenes (m,p,o)		1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
F1 C6-C10		260	<1	<1	9	37	37	<1	179	87	<1	<1	<1
F2 C10-C16		900	<10	<10	2250	2630	2630	<10	2540	651	<10	<10	<10
F3 C16-C34		800	<10	21	86	59	462	<10	154	90	<10	<10	<10
F4 C34-C50		5600	<10	<10	14	<10	23	<10	<10	<10	<10	<10	<10

NOTES:

- 1) BTEX Criteria based on CCME Soil Quality Guidelines for Residential Land-Use
- 2) F1-F4 Criteria based on Canada Wide Standards for PHCs in Soil
- 3) Exceedance indicated with shading

Table 1.2: PAH Concentrations in Soils

PARAMETER	DEPTH	CRITERIA (ppm)	BAT-1009 10-30 cm	BAT-1010 30-50 cm
Naphthalene		0.6	<0.05	<0.05
Acenaphthylene		-	<0.05	<0.05
Acenaphthene		-	<0.05	<0.05
Fluorene		-	<0.05	<0.05
Phenanthrene		5	<0.05	<0.05
Anthracene		-	<0.05	<0.05
Fluoranthene		-	<0.05	<0.05
Pyrene		10	<0.05	<0.05
Benzo(a)anthracene		1	<0.05	<0.05
Chrysene		-	<0.05	<0.05
Benzo(b)fluoranthene		1	<0.05	<0.05
Benzo(j)fluoranthene		-	<0.05	<0.05
Benzo(k)fluoranthene		1	<0.05	<0.05
Benzo(a)pyrene		0.7	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene		1	<0.05	<0.05
Dibenzo(a,h)anthracene		1	<0.05	<0.05
Benzo(g,h,i)perylene		-	<0.05	<0.05
CB(a)P		-	<0.05	<0.05

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential Land-Use except as noted below
- 2) * Indicates criteria based on DCC Tier 2 Criteria
- 3) Lead criteria based on DCC Tier 1 (200 ppm) and DCC Tier 2 (500 ppm)

Table 1.3: Storage Tank Contents - Hydrocarbon Concentrations in Water

PARAMETER	CRITERIA (ppm)	East Tank
Benzene	0.37	<0.001
Toluene	0.002	<0.001
Ethylbenzene	0.09	<0.001
Xylene	-	0.001
F1	-	0.08
F2	-	0.08
F3	-	3.5
F4	-	4.6

NOTES:

- 1) Criteria based on CCME Freshwater Aquatic Life

FOX C - DEW Line Site
Summary of Analytical Data
Beach Area Barrel Dumps

Table 2.1: Metals Concentrations in Soils

PARAMETER	CRITERIA	BA-1017	BA-1018	BA-1019	BA-1019	BA-1020	Duplicate of	BA-1021	BA-1023	BA-1024	BA-1025
Depth:	(ppm)	40-60 cm	60-80 cm	40 cm	100 cm	25-40 cm	BA-1020	50-70 cm	40-60 cm	10-30 cm	30 cm
Antimony	20	3	2.6	2.5	3.3	3.5	3.3	2.8	1.1	0.8	2.8
Arsenic	30*	3.9	3.7	3.5	3.8	4.3	4.2	4.2	2.5	1.4	3.6
Barium	12	107	110	106	137	141	134	120	50.1	24.5	122
Beryllium	500	0.44	0.44	0.4	0.54	0.58	0.55	0.48	0.21	0.15	0.46
Boron	4	0.5	0.5	0.5	1.3	0.8	0.6	0.5	0.1	<0.1	0.2
Cadmium	5*	0.07	0.07	0.06	0.08	0.08	0.1	0.06	0.06	0.05	0.09
Chromium	250*	59.5	60.5	58.4	76.4	82.8	76.2	66.4	23.8	12.8	65.7
Hexavalent Chromium	0.4	<0.1	0.2	0.1	0.2	<0.1	0.1	0.2	<0.1	<0.1	<0.1
Cobalt	50*	7.43	7.69	7.7	9.19	9.77	9.32	8.28	3.76	2.57	8.5
Copper	100*	22.8	24.9	22.9	29.5	32	30.4	26.9	13.3	8.92	28.3
Lead	200/500	8.6	8.4	10.9	10.2	10.8	10.4	9.3	4.6	3.5	9.6
Mercury	140	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Molybdenum	6.6	0.8	0.8	1.1	0.9	1.1	1	0.8	0.3	0.3	0.4
Nickel	100*	25.6	27.2	25.6	32.6	35.2	32.8	29.1	13.8	9.43	30.3
Selenium	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Silver	20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Thallium	1	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Tin	50	2.2	2	2.2	2.2	2.6	2.7	2.3	1.9	2	2.2
Vanadium	130	53.7	54.5	52	68.2	72.2	69	59.5	20.7	11.3	57.9
Zinc	500*	60.1	61	58.6	78.3	83.3	78.8	68.5	25.7	15.4	70.1

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential Land-Use except as noted below
- 2) * Indicates criteria based on DCC Tier 2 Criteria
- 3) Lead criteria based on DCC Tier 1 (200 ppm) and DCC Tier 2 (500 ppm)

FOX - C DEW Line Site
Summary of Analytical Data
Water Lake Area

Table 3.1: PHC Concentrations in Soils

PARAMETER	CRITERIA (ppm)	WL-1001 0-15 cm	WL-1002 30-50 cm	WL-1003 40-50 cm	WL-1004 30-40 cm	WL-1005 0-30 cm	WL-1005 75 cm	WL-1006 40-60 cm	WL-1007 60-80 cm	WL-1008 0-10 cm
Benzene	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	0.8	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	1.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total Xylenes (m,p,o)	1	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02
F1 C6-C10	260	<1	<1	<1	<1	4	10	36	<1	2
F2 C10-C16	900	13	<10	<10	<10	87	358	881	<10	<10
F3 C16-C34	800	37	77	69	<10	1370	10000	346	116	1500
F4 C34-C50	5600	27	46	73	<10	1370	2080	288	52	320

NOTES:

- 1) BTEX Criteria based on CCME Soil Quality Guidelines for Residential Land-Use
- 2) F1-F4 Criteria based on Canada Wide Standards for PHCs in Soil
- 3) Exceedance indicated with shading

Table 3.2: PAH Concentrations in Soils

PARAMETER	CRITERIA (ppm)	WL-1005 0-30 cm
Naphthalene	0.6	<0.1
Acenaphthylene	-	<0.1
Acenaphthene	-	<0.1
Fluorene	-	<0.1
Phenanthrene	5	<0.1
Anthracene	-	<0.1
Fluoranthene	-	<0.1
Pyrene	10	<0.1
Benzo(a)anthracene	1	<0.1
Chrysene	-	<0.1
Benzo(b)fluoranthene	1	0
Benzo(j)fluoranthene	-	0
Benzo(k)fluoranthene	1	0
Benzo(a)pyrene	0.7	0
Indeno(1,2,3-c,d)pyrene	1	0
Dibenzo(a,h)anthracene	1	0
Benzo(g,h,i)perylene	-	0
CB(a)p	-	0

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential Land-Use

Table 3.3: PCB Concentrations in Soils

PARAMETER	CRITERIA (ppm)	WL-1005 0-30 cm	WL-1008 0-10	WL-1008 30 cm
Aroclor 1016	-	<0.1	<0.1	<0.1
Aroclor 1221	-	<0.1	<0.1	<0.1
Aroclor 1232	-	<0.1	<0.1	<0.1
Aroclor 1242	-	<0.1	<0.1	<0.1
Aroclor 1248	-	<0.1	<0.1	<0.1
Aroclor 1254	-	<0.1	<0.1	<0.1
Aroclor 1260	-	<0.1	<0.1	<0.1
Aroclor 1262	-	<0.1	<0.1	<0.1
Aroclor 1268	-	<0.1	<0.1	<0.1
Total PCBs	1-5	<0.1	<0.1	<0.1

NOTES:

- 1) Criteria based on DCC Tier 1 (1 ppm) and DCC Tier 2 (5 ppm) for PCBs

FOX - C DEW Line Site
Summary of Analytical Data
Surface Water Samples from Water Lake

Table 4.1: Total Metals in Surface Water

PARAMETER	UNIT	CRITERIA	WL-SW-02
Aluminum	mg/L	0.005	0.0002
Antimony	mg/L	-	0.0002
Arsenic	mg/L	0.005	<0.0002
Barium	mg/L	-	0.031
Beryllium	mg/L	-	<0.0001
Bismuth	mg/L	-	<0.0005
Boron	mg/L	-	<0.002
Cadmium	mg/L	0.000017	<0.0001
Chromium	mg/L	-	0.0007
Cobalt	mg/L	-	0.0049
Copper	mg/L	0.002	0.002
Iron	mg/L	0.3	0.001
Lead	mg/L	0.001	0.001
Lithium	mg/L	-	0.002
Manganese	mg/L	-	0.041
Mercury	mg/L	-	<0.0002
Molybdenum	mg/L	0.073	<0.001
Nickel	mg/L	0.025	0.0126
Selenium	mg/L	0.001	<0.0002
Silicon	mg/L	-	3.97
Silver	mg/L	0.0001	<0.0001
Strontium	mg/L	-	0.017
Sulphur	mg/L	-	3.02
Thallium	mg/L	0.0008	<0.00005
Tin	mg/L	-	<0.001
Titanium	mg/L	-	0.0068
Uranium	mg/L	-	<0.0005
Vanadium	mg/L	-	0.0002
Zinc	mg/L	0.03	0.001

Notes

1. Criteria based on CCME Freshwater Aquatic Life Guideline

Table 4.2: PHC Concentrations in Surface Water

PARAMETER	UNIT	CRITERIA	WL-SW-01	WL-SW-02
Benzene	mg/L	0.37	<0.001	<0.001
Toluene	mg/L	0.002	<0.001	<0.001
Ethylbenzene	mg/L	0.09	<0.001	<0.001
Total Xylenes (m,p,o)	mg/L	-	0.002	0.001
F1	mg/L	-	0.07	0.06
F2 C10-C16	mg/L	-	<0.1	<0.1
F3 C16-C34	mg/L	-	<0.1	<0.1
F3+ C34+	mg/L	-	<0.1	<0.1
ph	-	6.5-9	-	6.7
Hardness	mg/L	-	-	9.6
Ca ²⁺	mg/L	-	-	2.6

Notes

1. Criteria based on CCME Freshwater Aquatic Life Guideline

Table 4.3: PCB Concentrations in Surface Water

PARAMETER	UNIT	CRITERIA	WL-SW-02	WL-SW-02
Aroclor 1016	ug/L	-	<0.1	<0.1
Aroclor 1221	ug/L	-	<0.1	<0.1
Aroclor 1232	ug/L	-	<0.1	<0.1
Aroclor 1242	ug/L	-	<0.1	<0.1
Aroclor 1248	ug/L	-	<0.1	<0.1
Aroclor 1254	ug/L	-	<0.1	<0.1
Aroclor 1260	ug/L	-	<0.1	<0.1
Aroclor 1262	ug/L	-	<0.1	<0.1
Aroclor 1268	ug/L	-	<0.1	<0.1
Total PCBs	ug/L	0.1	<0.1	<0.1

Notes:

1. Criteria based on CCME Freshwater Aquatic Life Guideline, guideline is no longer recommended

2. Exceedance Indicated with shading

FOX - C DEW Line Site
Summary of Analytical Data
Water Lake and River Sediments

Table 5.1: Metals Concentrations in Sediment

PARAMETER	Criteria (ppm)	RS-1 0 cm	RS-2 0 cm	WLS-1 0 cm	WLS-2 0 cm
Antimony	-	0.6	0.5	0.8	0.5
Arsenic	5.9	<0.5	0.8	2.2	<0.5
Barium	-	18.8	18.2	29.4	25.8
Beryllium	-	0.13	0.15	0.16	0.22
Boron	-	<0.1	0.4	<0.1	<0.1
Cadmium	0.6	0.05	0.03	0.06	0.03
Chromium	37.3	9.87	12.7	17.2	11.2
Cobalt	-	1.55	1.87	2.9	1.46
Copper	35.7	8.58	6.86	11.3	4.39
Lead	35	3.8	2.2	3.2	1.5
Mercury	0.17	<0.01	<0.01	<0.01	<0.01
Molybdenum	-	0.1	0.1	0.5	<0.1
Nickel	-	4.83	5.72	9.98	4.77
Selenium	-	<0.2	<0.2	<0.2	<0.2
Silver	-	0.06	<0.05	<0.05	<0.05
Thallium	-	<0.3	<0.3	<0.3	<0.3
Tin	-	2	2.1	2	1.9
Vanadium	-	8.6	11.8	15	9.11
Zinc	123	14.9	14.7	20.3	15.6

NOTES:

Table 5.3: PHC Concentrations in Sediment

PARAMETER	Criteria (ug/kg)	RS-1 0 cm	RS-2 0 cm	WLS-1 0 cm	WLS-2 0 cm
Benzene	-	<0.02	<0.02	<0.02	<0.02
Toluene	-	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	-	<0.02	<0.02	<0.02	<0.02
Total Xylenes (m,p,o)	-	<0.02	<0.02	<0.02	<0.02
F1 C6-C10	-	<1	<1	<1	<1
F2 C10-C16	-	<10	<10	<10	<10
F3 C16-C34	-	28	27	26	<10
F4 C34-C50	-	11	18	12	<10

NOTES:

- 1) No standards exist for BTEX or F1-F4 Parameters
- 2) Exceedance indicated with shading

Table 5.2: PCB Concentrations in Sediment

PARAMETER	Criteria (ppm)	RS-1 0 cm	RS-2 0 cm	WLS-1 0 cm	WLS-2 0 cm
Aroclor 1016	-	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	-	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	-	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	-	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	-	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	-	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	-	<0.1	<0.1	<0.1	<0.1
Aroclor 1262	-	<0.1	<0.1	<0.1	<0.1
Aroclor 1268	-	<0.1	<0.1	<0.1	<0.1
Total PCBs	0.034	<0.1	<0.1	<0.1	<0.1

NOTES:

- 1) Criteria based on CCME Interim Sediment Quality Guidelines

Table 5.4: PAH Concentrations in Sediment

PARAMETER	Criteria (ppm)	RS-1 0 cm	RS-2 0 cm	WLS-1 0 cm	WLS-2 0 cm
Naphthalene	0.0346	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	0.00587	<0.05	<0.05	<0.05	<0.05
Acenaphthene	0.00671	<0.05	<0.05	<0.05	<0.05
Fluorene	0.0212	<0.05	<0.05	<0.05	<0.05
Phenanthrene	0.0419	<0.05	<0.05	<0.05	<0.05
Anthracene	0.0469	<0.05	<0.05	<0.05	<0.05
Fluoranthene	0.111	<0.05	<0.05	<0.05	<0.05
Pyrene	0.053	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	0.0317	<0.05	<0.05	<0.05	<0.05
Chrysene	0.0571	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	-	<0.05	<0.05	<0.05	<0.05
Benzo(j)fluoranthene	-	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	-	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	0.0319	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	-	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	0.00622	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	-	<0.05	<0.05	<0.05	<0.05
CB(a)P	-	<0.05	<0.05	<0.05	<0.05

NOTES:

- 1) Criteria based on CCME Interim Sediment Quality Guidelines

FOX - C DEW Line Site
Summary of Analytical Data
Mid Station - Barrel Storage Area/Dump Site

Table 6.1: Metals Concentrations in Soils

PARAMETER	Criteria	MS-1081	MS-1082	MS-1083	MS-1086	MS-1086
Depth:	(ppm)	0-20 cm	0-20 cm	20 cm	20 cm	10-20 cm
Antimony	20	2.2	1.6	1.8	1	0.5
Arsenic	30*	2	2.6	2	0.9	0.7
Barium	500	72.1	59.8	57.9	45.9	29
Beryllium	4	0.4	0.35	0.29	0.15	0.2
Boron	2	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium	5*	0.22	0.08	0.07	0.12	0.04
Chromium	250*	40.4	37.6	36.8	41.7	15.8
Cobalt	50*	6.21	5.59	5.62	3.78	2.47
Copper	100*	28.7	25.7	33.6	17	12
Lead	200/500	14.3	7.9	7	132	10.2
Mercury	6.6	<0.01	<0.01	<0.01	<0.01	<0.01
Molybdenum	10	1.1	1.1	1	1.3	0.2
Nickel	100*	23.6	21.8	21	12.2	8.42
Selenium	1	<0.2	<0.2	<0.2	<0.2	<0.2
Silver	20	<0.05	<0.05	<0.05	<0.05	<0.05
Thallium	1	<0.3	<0.3	<0.3	<0.3	<0.3
Tin	50	2.6	2.2	2.5	2.8	2.1
Vanadium	130	36.6	34.3	34.9	19.3	13.6
Zinc	500*	78.4	44.8	43.2	74.3	21.3

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential Land-Use except as noted below
- 2) * Indicates criteria based on DCC Tier 2 Criteria
- 3) Lead criteria based on DCC Tier 1 (200 ppm) and DCC Tier 2 (500 ppm)

Table 6.2: PCB Concentrations in Soils

PARAMETER	CRITERIA	MS-1080	MS-1081	MS-1082	US-1083	US-1084	MS-1086	MS-1086
Depth:	(ppm)	0-10 cm	0-20 cm	0-20 cm	20 cm	0-10 cm	20 cm	10-20 cm
Aroclor 1016	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	-	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1262	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1268	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	1/5	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1

NOTES:

- 1) Criteria based on DCC Tier 1 (1 ppm) and DCC Tier 2 (5 ppm) for PCBs

FOX - C DEW Line Site
Summary of Analytical Data
Mid Station - Barrel Storage Area/Dump Site

Table 6.3: PHC Concentrations in Soils

PARAMETER	CRITERIA	MS-1080	MS-1081	MS-1082	MS-1083	MS-1086	MS-1086	MS-1086
Depth:	(ppm)	0-10 cm	0-20 cm	0-20 cm	20 cm	20 cm	10-20 cm	Duplicate
Benzene	0.5	<0.02	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02
Toluene	0.8	<0.02	<0.01	<0.01	<0.01	0.04	0.03	<0.02
Ethylbenzene	1.2	<0.02	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02
Total Xylenes (m.p.o)	1	0.02	<0.01	<0.01	<0.01	0.03	0.02	<0.02
F1 C6-C10	260	<1	<5	<5	<5	<1	<1	<1
F2 C10-C16	900	537	<10	<10	<10	348	66	287
F3 C16-C34	800	17400	126	404	10	26500	13400	13700
F4 C34-C50	5600	3830	40	105	<10	13800	9900	6550

NOTES:

- 1) BTX Criteria based on CCME Soil Quality Guidelines for Residential Land-Use
- 2) F1-F4 Criteria based on Canada Wide Standards for PHCs in Soil
- 3) Exceedance indicated with shading

Table 6.4: PAH Concentrations in Soils at the Mid Station Heli Pad Dump Area

PARAMETER	CRITERIA	MS-1080	US-1084	MS-1086	MS-1086	MS-1086
Depth:	(ppm)	0-10 cm	0-10 cm	20 cm	10-20 cm	Duplicate
Naphthalene	0.6	<0.05	<0.05	0.07	0.06	<0.05
Acenaphthylene	-	<0.05	<0.05	0.23	0.22	0.61
Acenaphthene	-	0.07	<0.05	<0.05	<0.05	<0.05
Fluorene	-	0.84	<0.05	0.11	0.11	0.15
Phenanthrene	5	5.54	<0.05	0.83	0.76	0.79
Anthracene	-	<0.05	<0.05	<0.05	<0.05	0.08
Fluoranthene	-	0.3	<0.05	0.07	0.05	0.1
Pyrene	10	<0.05	<0.05	0.12	0.08	0.12
Benzo(a)anthracene	1	<0.05	<0.05	0.09	0.06	<0.05
Chrysene	-	0.34	<0.05	0.24	0.23	0.1
Benzo(b)fluoranthene	1	0.05	<0.05	<0.05	0.15	<0.05
Benzo(j)fluoranthene	-	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	1	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	0.7	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	1	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	1	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	-	<0.05	<0.05	<0.05	<0.05	<0.05
CB(a)P	-	<0.05	<0.05	<0.05	<0.05	<0.05

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential Land-Use
- 2) Exceedance indicated with shading

FOX - C DEW Line Site
Summary of Analytical Data
Mid Station Dump - Water Analysis

Table 7.1: Metals in Surface Water

PARAMETER	UNIT	CRITERIA	Total Metals	Dissolved Metals
			MS-1081	MS-1081
Aluminum	mg/L	0.005		<0.005
Antimony	mg/L	-	0.0002	0.0003
Arsenic	mg/L	0.005	<0.0002	<0.0002
Barium	mg/L	-	0.005	0.002
Beryllium	mg/L	-	<0.0001	<0.0001
Bismuth	mg/L	-	<0.0005	<0.0005
Boron	mg/L	-	0.006	0.007
Cadmium	mg/L	0.000017		0.00002
Chromium	mg/L	-	0.0011	<0.0005
Cobalt	mg/L	-	0.0003	<0.0001
Copper	mg/L	0.002	0.002	0.003
Iron	mg/L	0.3		-
Lead	mg/L	0.001	0.001	0.0003
Lithium	mg/L	-	<0.001	<0.001
Manganese	mg/L	-	0.006	-
Mercury	mg/L	-	<0.0002	-
Molybdenum	mg/L	0.073	<0.001	<0.001
Nickel	mg/L	0.025	0.0008	<0.0005
Selenium	mg/L	0.001	<0.0002	<0.0002
Silicon	mg/L	-	1.67	-
Silver	mg/L	0.0001	<0.0001	<0.0001
Strontium	mg/L	-	0.006	0.009
Sulphur	mg/L	-	0.68	-
Thallium	mg/L	0.0008	<0.00005	<0.00005
Tin	mg/L	-	<0.001	<0.001
Titanium	mg/L	-	0.0384	<0.0005
Uranium	mg/L	-	<0.0005	<0.0005
Vanadium	mg/L	-	0.0008	<0.0001
Zinc	mg/L	0.03	0.005	0.002

Notes

1. Criteria based on CCME Freshwater Aquatic Life Guideline

Table 7.2: PHC Concentrations in Surface Water

PARAMETER	UNIT	CRITERIA	MS-1081
Benzene	mg/L	0.37	<0.001
Toluene	mg/L	0.002	0.001
Ethylbenzene	mg/L	0.09	<0.001
Total Xylenes (m,p,o)	mg/L	-	0.003
F1	mg/L	-	0.013
F2 C10-C16	mg/L	-	<0.1
F3 C16-C34	mg/L	-	<0.1
F3+ C34+	mg/L	-	<0.1
ph	-	6.5-9	6.74
Hardness	mg/L	-	3.9
Ca ⁺⁺	mg/L	-	1.2

Notes

1. Criteria based on CCME Freshwater Aquatic Life Guideline

Table 7.3: PCB Concentrations in Surface Water

PARAMETER	UNIT	CRITERIA	MS-1081
Aroclor 1016	ug/L	-	<0.1
Aroclor 1221	ug/L	-	<0.1
Aroclor 1232	ug/L	-	<0.1
Aroclor 1242	ug/L	-	<0.1
Aroclor 1248	ug/L	-	<0.1
Aroclor 1254	ug/L	-	<0.1
Aroclor 1260	ug/L	-	<0.1
Aroclor 1262	ug/L	-	<0.1
Aroclor 1268	ug/L	-	<0.1
Total PCBs	ug/L	0.1	<0.1

Notes:

1. Criteria based on former CCME Guideline, guideline is no longer recommended

2. Exceedance indicated with shading

FOX - C DEW Line Site
Summary of Analytical Data
Mid Station Barrel Dumps

Table 8.1: PHC Concentrations in Soils

PARAMETER	DEPTH	CRITERIA (ppm)	US-1085 10 cm	US-1085 85 cm	MS-1087 20 cm	MS-1088 10 cm	MS-1089 20 cm	MS-1090 0-10 cm	MS-1090B 0-10 cm	MS-1091 0-10 cm	MS-1092 0-10 cm	MS-1093 0-10 cm	MS-1094 0-10 cm	MS-1095 0-10 cm	BD6 0-5 cm
Benzene		0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene		0.8	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ethylbenzene		1.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total Xylenes (m,p,o)		1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
F1 C6-C10		260	<1	<1	<1	<1	4	<1	<1	3	<1	<1	<1	<1	<1
F2 C10-C16		900	22	<10	<10	<10	100	44	35	302	516	<10	20	<10	76
F3 C16-C34		800	9300	28	29	19	76	6600	1500	726	284	59	172	36	17800
F4 C34-C50		5600	21000	21	12	10	40	1500	2750	175	39	15	221	18	13800

NOTES:

- 1) BTEX Criteria based on CCME Soil Quality Guidelines for Residential Land-Use
- 2) F1-F4 Criteria based on Canada Wide Standards for PHCs in Soil
- 3) Exceedance indicated with shading

Table 8.2: PAH Concentrations in Soils

PARAMETER	DEPTH	CRITERIA (ppm)	BD6 0-5 cm
Naphthalene		0.6	0.63
Acenaphthylene		-	<0.05
Acenaphthene		-	<0.05
Fluorene		-	0.1
Phenanthrene		5	0.59
Anthracene		-	0.06
Fluoranthene		-	0.08
Pyrene		10	0.15
Benzo(a)anthracene		1	0.07
Chrysene		-	0.63
Benzo(b)fluoranthene		1	0.09
Benzo(k)fluoranthene		-	<0.05
Benzo(g,h,i)perylene		1	<0.05
Benzo(a)pyrene		0.7	<0.05
Indeno(1,2,3-c,d)pyrene		1	<0.05
Dibenzo(a,h)anthracene		1	<0.05
Benzo(g,h,i)perylene		-	<0.05
CB(a)P		-	<0.05

NOTES:

- 1) Criteria based on CCME for Residential Land-Use

Table 8.3: PCB Concentrations in Soils

PARAMETER	DEPTH	CRITERIA (ppm)	MS-1091 0-10 cm	MS-1094 0-10 cm	BD6 0-5 cm
Aroclor 1016		-	<0.1	<0.1	<0.1
Aroclor 1221		-	<0.1	<0.1	<0.1
Aroclor 1232		-	<0.1	<0.1	<0.1
Aroclor 1242		-	<0.1	<0.1	<0.1
Aroclor 1248		-	<0.1	<0.1	<0.1
Aroclor 1254		-	<0.1	<0.1	0.2
Aroclor 1260		-	<0.1	<0.1	<0.1
Aroclor 1262		-	<0.1	<0.1	<0.1
Aroclor 1268		-	<0.1	<0.1	<0.1
Total PCBs		1-5	<0.1	<0.1	0.2

NOTES:

- 1) Criteria based on DCC Tier 1 and Tier 2 Criteria for PCBs

Table 8.4: Metals Concentrations in Soils

PARAMETER	DEPTH	CRITERIA (ppm)	BD6 0-5 cm
Antimony		20	5.6
Arsenic		30*	1.5
Barium		500	411
Beryllium		4	0.22
Boron		2	0.4
Cadmium		5*	4.3
Chromium		250*	38.1
Cobalt		50*	4.49
Copper		100*	3.1
Lead		200/500	3.0
Mercury		6.6	0.03
Molybdenum		10	1.6
Nickel		100*	17
Selenium		1	0.3
Silver		20	1.89
Thallium		1	<0.3
Tin		50	17.8
Vanadium		130	17.4
Zinc		500*	5.1

NOTES:

- 1) Criteria based on CCME Residential Land-Use except as noted below
- 2) * Indicates criteria based on DCC Tier 2 Criteria
- 3) Lead criteria based on DCC Tier 1 (200 ppm) and DCC Tier 2 (500 ppm)
- 4) Shaded values exceed DCC Tier 2 criteria

FOX - C DEW Line Site
Summary of Analytical Data
Module Train Area

Table 9.1: PCB Concentrations in Soils

PARAMETER	CRITERIA	US-1034	US-1035	US-1036	Duplicate of	US-1037	US-1038	US-1039	US-1040	US-1041
Depth:	(ppm)	35-50 cm	0-15 cm	35 cm	US-1036	45 cm	0-10 cm	0-5 cm	0-20 cm	0-10 cm
Aroclor 1016	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	-	<0.1	0.6	0.7	0.3	0.1	0.5	<0.1	0.4	0.2
Aroclor 1260	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1262	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1268	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	1.3	<0.1	0.6	0.7	0.3	0.1	0.5	<0.1	0.4	0.2

NOTES:

1) Criteria based on DCC Tier 1 (1 ppm) and DCC Tier 2 (5 ppm) for PCBs

Table 9.2: PHC Concentrations in Soils at Upper Station Module Train

PARAMETER	CRITERIA	US-1038	US-1039	US-1040	US-1041
Depth:	(ppm)	0-10 cm	0-5 cm	0-20 cm	0-10 cm
Benzene	0.5	<0.02	<0.02	<0.02	<0.02
Toluene	0.8	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	1.2	<0.02	<0.02	0.02	<0.02
Total Xylenes (m,p,o)	1	0.05	<0.02	0.23	0.03
F1 C6-C10	260	58	<1	103	47
F2 C10-C16	900		180		
F3 C16-C34	800		346		466
F4 C34-C50	5600	366	47	17	66

NOTES:

1) BTEX Criteria based on CCME Soil Quality Guidelines for Residential Land-Use

2) F1-F4 Criteria based on Canada Wide Standards for PHCs in Soil

3) Exceedance indicated with shading

Table 9.3: Metals Concentrations in Soils

PARAMETER	Criteria	US-1039	US-1040	US-1041
Depth:	(ppm)	0-5 cm	0-20 cm	0-10 cm
Antimony	20	1	2.9	1.5
Arsenic	30*	<0.5	1	<0.5
Barium	0	16	34.4	16.7
Beryllium	<0.02	0.13	0.34	0.25
Boron	<0.02	0.1	0.2	<0.1
Cadmium	5*	0.06	0.42	0.11
Chromium	250*	11.9	23.2	15.3
Cobalt	50*	1.97	3.63	2.83
Copper	100*	8.29	14.1	10.2
Lead	200/500	3	10.9	10.3
Mercury	2080	<0.01	0.04	0.1
Molybdenum	2160	0.2	0.4	0.3
Nickel	100*	7.48	12.2	8.17
Selenium	1	<0.2	<0.2	<0.2
Silver	20	<0.05	<0.05	<0.05
Thallium	1	<0.3	<0.3	<0.3
Tin	50	2	2.1	2.1
Vanadium	130	9.6	19.1	8.46
Zinc	500*	13.6	49.2	16.3

NOTES:

1) Criteria based on CCME Residential Land-Use except as noted below

2) * Indicates criteria based on DCC Tier 2 Criteria

3) Lead criteria based on DCC Tier 1 (200 ppm) and DCC Tier 2 (500 ppm)

FOX - DEW Line Site
Summary of Analytical Data
Upper Station - Sewer Outfall/Dump Area

Table 10.1: Metals Concentrations in Soils

PARAMETER	CRITERIA	US-1026	US-1027	US-1028	US-1029	US-1030	US-1031	US-1032	US-1033
Depth:	(ppm)	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-15 cm	0-10 cm	0-10 cm
Antimony	20	1.2	1.3	1.7	1.4	1.3	1.3	1.4	1.3
Arsenic	30*	1.1	2.1	1.3	1.9	1.3	1.8	1	1.9
Barium	12	57.6	50.1	40.6	42.2	36	39.6	36.8	42.8
Beryllium	500	0.2	0.33	0.25	0.23	0.23	0.26	0.15	0.27
Boron	4	<0.1	0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium	5*	0.1	0.06	0.46	0.05	0.08	0.05	0.05	0.07
Chromium	250*	28.2	33.6	27	28.4	22.4	28.3	23.8	30.7
Cobalt	50*	3.59	4.86	4.36	3.86	3.14	4.04	3.02	3.86
Copper	100*	13.4	23	28.8	15.6	14	17.6	15	17.9
Lead	200/500	5.6	7.1	23.1	5.5	5.6	6	4	6.7
Mercury	140	<0.01	0.01	0.04	<0.01	0.05	0.01	<0.01	0.02
Molybdenum	6.6	0.5	1	0.5	0.6	0.5	0.6	0.5	0.7
Nickel	100*	13.2	18.4	12.4	13	11.4	14.1	10.8	14.2
Selenium	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Silver	20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Thallium	1	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Tin	50	1.8	2	2.9	2.1	2.1	1.8	2	1.9
Vanadium	130	24.9	29.2	21.5	26.2	20.2	26.6	21.8	27.6
Zinc	500*	43.7	42.6	67.3	32.4	35.2	33.3	28.8	36.6

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential Land-Use
- 3) Exceedance indicated with shading

Table 10.2: PCB Concentrations in Soils

PARAMETER	CRITERIA	US-1026	US-1027	US-1028	US-1029	US-1030	US-1031	US-1032	US-1033	US-1043
Depth:	(ppm)	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-15 cm	0-10 cm	0-10 cm	0-10 cm
Aroclor 1016	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	-	<0.1	<0.1	2	<0.1	0.5	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	-	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1262	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1268	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	1/5	<0.1	<0.1		<0.1	0.5	<0.1	<0.1	<0.1	<0.1

NOTES:

- 1) Criteria based on DCC Tier 1 (1 ppm) and DCC Tier 2 (5 ppm) for PCBs
- 2) Exceedance above DCC Tier 1 indicated with shading

FOX - DEW Line Site
Summary of Analytical Data
Upper Station - Sewer Outfall/Dump Area

Table 10.3: PHC Concentrations in Soils at the Upper Station Outfall Area

PARAMETER	CRITERIA	US-1026	US-1028	US-1029	US-1030	US-1032	US-1033	US-1043
Depth:	(ppm)	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0 cm
Benzene	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	0.8	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	1.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total Xylenes (m,p,o)	1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
F1 C6-C10	260	<1	<1	<1	<1	<1	<1	<1
F2 C10-C16	900	11	39	14	47	<10	94	<10
F3 C16-C34	800	128		31	564	11	397	33
F4 C34-C50	5600	28	226	<10	84	<10	22	<10

NOTES:

- 1) BTEX Criteria based on CCME Soil Quality Guidelines for Residential Land-Use
- 2) F1-F4 Criteria based on Canada Wide Standards for PHCs in Soil
- 3) Exceedance indicated with shading

FOX - C DEW LINE Site
Summary of Analytical Data
Garage Area

Table 11.1: PCB Concentrations in Soils

PARAMETER	CRITERIA (ppm)	US-1075 15-20 cm	US-1077 0-10 cm	US-1078 0-10 cm	US-1079 10-30 cm	US-1050 0-10 cm
Depth:						
Aroclor 1016	-	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	-	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	-	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	-	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	-	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	-	0.1	1.6	0.5	0.6	0.2
Aroclor 1260	-	<0.1	0.1	<0.1	<0.1	<0.1
Aroclor 1262	-	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1268	-	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	1/5	0.1	1.7	0.5	0.6	0.2

NOTES:

- 1) Criteria based on DCC Tier 1 (1 ppm) and DCC Tier 2 (5 ppm) for PCBs
- 2) Exceedance above DCC Tier 1 indicated with shading

Table 11.2: PHC Concentrations in Soils

PARAMETER	CRITERIA (ppm)	US-1071 20 cm	US-1071 50 cm	US-1075 15-20 cm	US-1076 0-15 cm	US-1076 20 cm	US-1077 0-10 cm	US-1078 0-10 cm	US-1079 10-30 cm	US-1050 0-10 cm
Depth:										
Benzene	0.5	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
Toluene	0.8	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	1.2	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
Total Xylenes (m,p,o)	1	<0.02	<0.02	<0.02	<0.02	0.09	<0.02	0.02	<0.02	<0.02
F1 C6-C10	260	<1	<1	15	4	<1	<1	<1	<1	<1
F2 C10-C16	900	<10	<10	288	6540	214	524	19	673	16
F3 C16-C34	800	284	1210	481	15600	599	8630	930	16500	768
F4 C34-C50	5600	40	47	72	686	99	726	219	1290	209

NOTES:

- 1) BTEX Criteria based on CCME Soil Quality Guidelines for Residential Land-Use
- 2) F1-F4 Criteria based on Canada Wide Standards for PHCs in Soil
- 3) Exceedance indicated with shading

FOX - C DEW LINE Site
Summary of Analytical Data
Garage Area

Table 11.3: Metals Concentrations in Soils

PARAMETER	Criteria	US-1050	US-1075
Depth:	(ppm)	0-10 cm	15-20 cm
Antimony	20	1.4	1
Arsenic	30*	1.1	1
Barium	500	42.7	39.5
Beryllium	12	0.14	0.2
Boron	2	<0.1	0.2
Cadmium	5*	0.08	0.27
Chromium	250*	51.5	82.2
Cobalt	50*	5.77	7.53
Copper	100*	16.4	25.8
Lead	200/500	9.5	16.1
Mercury	6.6	0.04	<0.01
Molybdenum	10	0.5	0.5
Nickel	100*	23.6	34.7
Selenium	1	<0.2	<0.2
Silver	20	<0.05	<0.05
Thallium	1	<0.3	<0.3
Tin	50	2.2	2.4
Vanadium	130	32.2	31.4
Zinc	500*	43.7	46.7

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential Land-Use except as noted below
- 2) * Indicates criteria based on DCC Tier 2 Criteria
- 3) Lead criteria based on DCC Tier 1 (200 ppm) and DCC Tier 2 (500 ppm)

FOX - C DEW Line Site
Summary of Analytical Data
South of Garage/Dump Area

Table 12.1: Metals Concentrations in Soils

PARAMETER	CRITERIA	US-1042	US-1044	US-1044	US-1047	US-1048	US-1053
Depth:	(ppm)	0 cm	0 cm	20-30 cm	0 cm	20-30 cm	0 cm
Antimony	20	1.1	1.4	1.5	1.4	1.2	1.9
Arsenic	30*	1.2	1.8	1.6	2.2	1.1	1.6
Barium	500	32	60.3	56.2	47	49.9	60.7
Beryllium	4	0.18	0.28	0.23	0.27	0.22	0.55
Boron	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium	5*	0.06	0.06	0.07	0.06	0.07	0.08
Chromium	250*	21.3	33.7	30.5	32.8	30	49
Cobalt	50*	2.51	4.5	4	4.2	4.06	5.22
Copper	100*	9.39	15.5	13	16.2	13.4	26.9
Lead	200/500	5.5	7	5	5.8	4.9	21
Mercury	6.6	0.01	0.01	0.02	<0.01	<0.01	0.02
Molybdenum	10	0.3	0.6	0.6	0.7	0.4	0.8
Nickel	100*	9.06	15	13.6	14.5	12.4	19.5
Selenium	1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Silver	20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Thallium	1	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Tin	50	2.2	2	2.1	2	2.2	2.2
Vanadium	130	19.2	31	28.4	29	27.1	40.4
Zinc	500*	25.3	38.7	33.6	38.3	35	55.5

NOTES:

- 1) Criteria based on CCME Soil Quality Guidelines for Residential Land-Use except as noted below
- 2) * Indicates criteria based on DCC Tier 2 Criteria
- 3) Lead criteria based on DCC Tier 1 (200 ppm) and DCC Tier 2 (500 ppm)

Table 12.2: PCB Concentrations in Soils

PARAMETER	CRITERIA	US-1042	US-1046	US-1047	US-1048	US-1049	US-1051	US-1052	US-1072	US-1073	US-1074
Depth:	(ppm)	0 cm	25-35 cm	0 cm	20-30 cm	30 cm	0 cm	0 cm	0-20cm	0-20cm	0-20 cm
Aroclor 1016	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4
Aroclor 1248	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	-	<0.1	<0.1	<0.1	<0.1	<0.1	1	1.1	<0.1	0.1	0.6
Aroclor 1260	-	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	0.2
Aroclor 1262	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1268	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total PCBs	1/5	<0.1	<0.1	<0.1	<0.1	<0.1	1.3	1.1	<0.1	0.1	1.2

NOTES:

- 1) Criteria based on DCC Tier 1 (1 ppm) and DCC Tier 2 (5 ppm) for PCBs
- 2) Exceedance indicated with shading

FOX - C DEW Line Site
Summary of Analytical Data
South of Garage/Dump Area

Table 12.3: PHC Concentrations in Soils

PARAMETER	CRITERIA	US-1042	US-1045	US-1046	US-1047	US-1048	US-1049	US-1051	US-1052	US-1072	US-1073	US-1074
Depth:	(ppm)	0 cm	30-50 cm	25-35 cm	0 cm	20-30 cm	30 cm	0 cm	0 cm	0-20cm	0-20cm	0-20 cm
Benzene	0.5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	0.8	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	1.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total Xylenes (m,p,o)	1	0.04	<0.02	<0.02	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
F1 C6-C10	260	<1	<1	<1	<1	113	<1	<1	2	4	5	3
F2 C10-C16	900	16	<10	136	<10	1060	<10	524	126	3610	8800	1440
F3 C16-C34	800	84	259	151	11	138	29	17200	31900	788	27000	6610
F4 C34-C50	5600	17	36	27	<10	16	<10	2200	8180	53	3370	1020

NOTES:

- 1) BTEX Criteria based on CCME Soil Quality Guidelines for Residential Land-Use
- 2) F1-F4 Criteria based on Canada Wide Standards for PHCs in Soil
- 3) Exceedance indicated with shading