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## Questions and Answers:

Q: Is it the intent of this contract that a non-environmental contractor can be awarded this contract provided the contaminated material is handled in the appropriate manner and the material is disposed of by a licenced hauler to a licenced facility ? It would appear from the specifications that the departmental representative determines what excavated material is to be deposited in temporary watertight storage cells for analysis and possible disposal and what material is to be reused as backfill. (Refer to Section 02 61 00 Page 2 Item 1.5.1 and Page 4 Item 3.2.1)

A: The bid is open to all contractors who are prepared to complete the work according to the specifications and drawings and to abide by the regulatory requirements. The handling of excavated material is indicated in the specifications and drawings.

Q: Can potted trees be used in lieu of bare root trees?

A: Bare root trees are required as specified.

Q: Can the Department provide a chemical analysis of representative material to be disposed of for the areas where the trees are to be planted for this project specifically in order that the contractors can provide detailed information to the disposal sub-contractor as to what the anticipated degree of contamination is in relation to the guideline for disposal ?

A: Historic soil testing results are provided in the Appendices to the Specifications, particularly the Appendix C figures and report tables. As trees will be planted throughout the site there is no single representative set of testing results characterizing the soils to be excavated.

In terms of waste classification, previous limited Toxicity Characteristic Leaching Procedure (TCLP) and ignitibility testing per Ontario waste regulations for soils collected in the vicinity of the former landfill area are provided in Appendix G attached.

Q: Is siltation control along the existing creek a requirement for this project ?

A: Yes siltation control along the existing creek is a requirement for this project. Refer to Section 01 35 42, 1.11.9.

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Q: Who removes the debris (old travel lift, old trailer, winch/crane structure etc.) from Zone C and if it is the contractor where are the details for this work ?

A: The Oshawa Port Authority is expected to remove the debris (old travel lift, old trailer, winch/crane structure etc.) from Zone C prior to initiation of the planting.

Q: In the event that not all of the non-contaminated soil is reused, what is to happen to it, and if it is to be disposed of by the contractor where is this paid for ?

A: Excess non-contaminated soil as defined in the specifications can be spread on the ground and properly graded in the vicinity of the planting hole from which it originated and as directed by the Department Representative.

In terms of waste classification, previous limited Toxicity Characteristic Leaching Procedure (TCLP) and ignitability testing per Ontario waste regulations for soils collected in the vicinity of the former landfill area are provided in Appendix G as follows.

## Appendix G

Table 3 Soil Analytical Results TCLP Oshawa Harbour Marina, Oshawa, Ontario

SNC-Lavalin Environment Sample No.	RDL	Units	O.Reg. 347 Criteria <sup>1</sup>	BH-10-115-1	BH-10-116-1	BH-10-117-1
Laboratory Sample No.	na	na	na	GG6700	GG6701	GG6702
Sampling Date	na	na	na	22-Jun-10	22-Jun-10	22-Jun-10
<b>TCLP Parameters</b>						
<b>Inorganics:</b>						
Arsenic	0.2	mg/L	2.5	<	<	<
Barium	0.2	mg/L	100	1.9	2.5	1.3
Boron	0.1	mg/L	500	0.2	0.3	0.5
Cadmium	0.05	mg/L	0.5	0.22	0.32	<
Chromium	0.1	mg/L	5	<	<	<
Cobalt	0.02	mg/L	nc	0.09	0.15	0.14
Lead	0.1	mg/L	5	2.4	2.3	0.3
Selenium	0.1	mg/L	1	<	<	<
Silver	0.01	mg/L	5	<	<	<
Uranium	0.01	mg/L	10	<	<	<
Mercury	0.001	mg/L	0.1	<	<	<
<b>Semi-Volatiles:</b>						
Benzo(a)pyrene	0.1	µg/L	1	<	<	<
<b>Volatiles:</b>						
Benzene	0.02	mg/L	0.5	<	<	0.13
Carbon Tetrachloride	0.02	mg/L	0.5	<	<	<
Chlorobenzene	0.02	mg/L	8	<	<	<
Chloroform	0.02	mg/L	10	<	<	<
1,2-Dichlorobenzene	0.05	mg/L	20	<	<	<
1,4-Dichlorobenzene	0.05	mg/L	0.5	<	<	<
1,2-Dichloroethane	0.05	mg/L	0.5	<	<	<
1,1-Dichloroethylene	0.02	mg/L	1.4	<	<	<
Dichloromethane	0.2	mg/L	5	<	<	<
Methyl Ethyl Ketone	0.5	mg/L	200	<	<	<
Tetrachloroethylene	0.02	mg/L	3	<	<	<
Trichloroethylene	0.02	mg/L	5	<	<	<
Vinyl Chloride	0.02	mg/L	0.2	<	<	<
Ignitability	na	na	ni	ni	ni	ni

RDL reportable detection limit unless noted < less than RDL na not applicable nc no criterion ni non ignitable -not analyzed <sup>1</sup> Ontario Regulation 347, as amended by O.Reg. 558. "Waste Management", Schedule 4 Leachate Quality Criteria.