

Vancouver Landfill List of Known Workplace Hazards

CONTRACT TITLE: INSTALLATION OF STOCKPILE ROAD LIGHTING

PROJECT MANAGER (CITY EMPLOYEE): JERRY SOBEJKO

CONTRACT NAME & # (IF KNOWN): INSTALLATION OF STOCKPILE ROAD LIGHTING - PS20180290

Purpose

This document shall be completed by the project manager, who shall list all the known worksite hazards and all the existing work process hazards that will be associated with the upcoming contract. The completed document shall then be provided to all potential contractors, as part of the tender package, so the project can be bid appropriately based on the known worksite hazards.

Definitions

Project Manager - the City employee designated to be the liaison with the contractor for the purpose of managing, overseeing, coordinating or in any other way administering the contract.

Instructions for Completion

The document must be completed in full. Choices for each entry are:

Y - Yes - the known worksite hazard or existing work process hazard does exist

N - No - the known worksite hazard or existing work process hazard does not exist*

NA - Not Applicable - worksite hazard or existing work process is not applicable for this contract type

TBD - a third party (environmental consultant) will address the issue (primarily for a hazardous materials assessment)

*based on reasonable estimation from all input by persons with expertise or relevant knowledge and understanding

Information from Hazardous Materials Assessments Provided by a Third Party

A hazardous materials assessment may be completed prior to the Project Manager completing the Owners List of Known Workplace Hazards. Any such assessment should be referenced by the Project Manager in this document and provided with the tender package. Hazardous materials may include asbestos, lead, crystalline silica, ammonia, PCB's, CFC's, moulds, mercury, ozone depleting substances (ODS), and radioactive substances.

Assistance in Completing this Document

If you have questions while completing this document, or are unsure if the listed hazards apply, please seek assistance from Health and Safety (604.871.6078 or healthandsafety@vancouver.ca).

Work Description:

Consulting services including design and construction supervision of the W40Ha Closure & Gas Works. Work done under this contract will include field work when the City is Prime and when construction contractor is Prime. Field work when the City is Prime includes survey, measurements/verification for design and inspections as needed in the W40Ha area, and other areas of the Landfill where the LFG system is present.

1. ASBESTOS-CONTAINING MATERIALS - asbestos is accepted for disposal at the landfill in accordance with the asbestos policy, asbestos trench/work area at the active face, residential drop off area, buried throughout the Landfill site with some locations identified.	Yes (Y) No (N) Not Applicable (NA) To Be Determined (TBD)
a) Asbestos containing materials (ACM) will be encountered	NA
b) A hazardous materials assessment for asbestos is provided in the contract	NA
c) A hazardous materials assessment for asbestos is the responsibility of the contractor	NA

If yes to a), Vancouver Landfill Asbestos Exposure Control Plan available upon request.

2. LEAD-CONTAINING MATERIALS - disturbance of lead-based paint, buried wood, electrical circuitry or metal alloys.	Yes (Y) No (N) Not Applicable (NA) To Be Determined (TBD)
a) Inorganic lead-containing materials may be encountered	NA
b) A hazardous materials assessment for lead is provided in the tender package	NA
c) A hazardous materials assessment for lead is the responsibility of the contractor	NA

3. OTHER HAZARDOUS MATERIALS - moulds and spores (at the Landfill active face and composting facility), wastewater treatment plant residuals, i.e. grit and sludge/scum screenings (at the Landfill active face), water treatment plant residuals (at the Landfill active face), bottom ash (on roads 40/50, at the Landfill active face), leachate/condensate (throughout the site), ammonia (ammonia-containing fridges accepted at RDO)	Yes (Y) No (N) Not Applicable (NA) To Be Determined (TBD)
a) A hazardous materials assessment for (list the specific hazardous material) is provided in the tender package	NA
b) A hazardous materials assessment for (list the specific hazardous material) will be provided in the tender package	NA
c) A hazardous materials assessment for (list the specific hazardous materials) will be the contractors responsibility	NA

If yes to any, provide the applicable document upon request:

Moulds and spores - Landfill Control Measures Against Exposure to Microbiological Agents - Safe Operating Procedure

Wastewater treatment plant residuals - Wastewater Treatment Residuals OH&S Info - 2014-03

Water treatment plant residuals - Drinking Water Treatment Residuals OH&S Info - 2014-03

Bottom ash: Safe Operating Procedure: Bottom Ash Management at Vancouver Landfill and Executive Summary of Vancouver Landfill Bottom Ash Management: Occupational Exposure Assessment and Human Health Risk Assessment

4. CONFINED SPACES - as marked on site. Examples include flare towers, sewer manholes, sewer wet wells, water/oil separator, drainage sump, utility chambers.	Yes (Y) No (N) or Not Applicable (NA)
a) A hazard assessment (for entry and inspection only) from the City of Vancouver is provided in the tender package	NA
b) The City of Vancouver shall provide procedures to isolate adjacent piping, or to lock out equipment (complicated systems only)	NA
c) The contractor shall be responsible for isolation and lockout procedures in the confined space	NA

5. LOCK OUT - lockout procedures required for specific equipment and electrical systems (ie. electrical repair, pump maintenance/repair).	Yes (Y) No (N) or Not Applicable (NA)
a) Lockout will be required to isolate or prevent the unexpected release of energy (electrical, mechanical, hydraulic, chemical, thermal, kinetic, gravitational, pneumatic)	Y
b) Work will be performed on or near energized equipment, lines, or circuits	Y

If yes to a) or b) describe:

There are currently lights on the main road and they need to be locked out, before any extension work is undertaken. Give notice to the City's personnel and they will lock out the system for you.

6. FALL PROTECTION - any time a person will be exposed to a fall of 10' or greater, or a fall of less than 10' where serious injury may occur: tree pruning, working on a roof, window and ledge cleaning, window replacement, roll-up door replacement, tent installation, awning/canopy installation, overhead air exchange installation, construction inspection and testing services.	Yes (Y) No (N) or Not Applicable (NA)
a) Workers will be exposed to a potential fall in excess of 3 m (10 feet), or to a fall of less than 3 m which would likely result in a serious injury (ex. impalement on rebar)	Y
b) Scaffolding or ladders will be required to be secured to a building or structure	NA

When digging trenches, sometimes the trench may be deeper than 3m, in which case the appropriate measures must be taken such as no entry into the trench along with appropriate set back distance or shoring, etc. Electrical lines are certainly higher than 3m and they need to be connected to.

7. OVERHEAD AND UNDERGROUND UTILITIES - overhead high voltage power lines, underground utilities i.e. gas, water, sewer, etc.	Yes (Y) No (N) or Not Applicable (NA)
a) There will be electrical hazards associated with overhead power lines such as limits of approach and contact	Y
b) Necessary assurances (in writing) have (or will be) obtained by the City, through the utility company, for any work where minimum limits of approach cannot be maintained (provide documentation and review at pre job meeting with the successful contractor candidate)	NA
c) Necessary assurances must be obtained (in writing) by the successful contractor, through the utility company, for any work where minimum limits of approach will not be able to be maintained	Y
d) Underground or hidden utilities are located on the job site. Any excavation or drilling work in proximity to an underground utility service must be undertaken in conformity with the requirements of the owner of that utility service	Y

If yes to c), and the specific physical locations where minimum limits of approach will not be able to be maintained are known, how will this information be provided to the contractor?

There are overhead powerline along the main road, that the contractor needs to connect to. There is a waterline in proximity to the pole installation locations. There are underground gas lines but it is believed they are far enough that they will not be an issue.

8. CONSTRUCTION, EXCAVATION, SHORING AND DEMOLITION	Yes (Y) No (N) or Not Applicable (NA)
a) As Prime Contractor, the City of Vancouver project manager will submit the Notice of Project (refer to When is a Notice of Project Required)	NA
b) Workers will be required to enter an excavation over 1.2m (4 ft) in depth	NA

9. CHEMICALS, SOLVENTS, FUMES, VAPORS, AND/OR DUSTS -silica dust	Yes (Y) No (N) or Not Applicable (NA)
a) The worksite has chemicals solvents, fumes, vapors or dusts that may affect the contractor	Y
b) Material Safety Data Sheets for controlled products at the worksite will be available, on request, to the contractor	Y

If yes to a), list the work processes and/or chemicals in use:

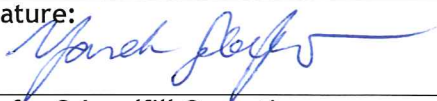
It may be dusty at times or the construction activity may stir up dust.

Silica dust arising from road travel - Vancouver Landfill Silica & Other Dusts Exposure Control Plan available on request

10. NOISE - Landfill active face, Residential Drop Off Area, flare station, compost facility, demolition area	Yes (Y) No (N) or Not Applicable (NA)
a) Employees will be exposed to noise levels above 85dbA	Y

Vancouver Landfill Noise Exposure Control plan available on request

OTHER HAZARDS (NOT IDENTIFIED ABOVE)	Yes (Y) No (N) or Not Applicable (NA)
a) compressed cylinder gas release (residential drop off area, flare station, active face)	NA
b) eye hazards (throughout the site)	Y
c) fires/explosion (Landfill active face, composting facility, flare station, equipment, throughout the site)	NA
d) mobile equipment/vehicle traffic (throughout the site)	Y
e) needle stick/blood borne pathogens (in garbage/on wheels/tracks of equipment) -	Y
f) spills (known/unknown materials)	Y
g) trip/slip hazards (throughout the site)	Y
h) violence (scalehouse, RDO, active face, compost)	NA
i) Landfill gas arising from the decomposition of municipal solid waste (flare station, active face, piping system, demolition area, pump station)	N
j) Equipment tipping/rollover (RDO, active face, compost, demolition area)	N
k) Hot surfaces (equipment, flare station)	NA

KNOWN WORKPLACE HAZARDS LIST COMPLETED BY	
Project Manager Name (print): Jerry Sobejko	
Project Manager Signature: 	Date: 12 Apr 2018
Title: Engineer, Transfer & Landfill Operations	Phone: 604.606.2731

