



INVITATION TO TENDER NO. PS20181106 (the "ITT")

CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL

Tenders are to be addressed to the Supply Chain Management office, 4th Floor, City of Vancouver, 453 West 12th Avenue, Vancouver, British Columbia, Canada, V5Y 1V4, and must be received in the drop box at the Supply Chain Management office prior to 3:00pm, Vancouver Time (as defined in Note 3 below), on Thursday, October 04, 2018 (the "Closing Time"). Tenders will be not be publicly opened. Tender results can be found within 48 hours of the Closing Time at the following website:

<http://vancouver.ca/doing-business/unverified-tender-results.aspx>

NOTES:

1. Tenders may be delivered by couriers or otherwise in person at the address specified above, prior to the Closing Time.
2. Tenders must be in sealed envelopes or packages marked with the Tenderer's name and the ITT title and number. Tenderers should submit one copy of the Tender and one copy of each other document required by the Tender Documents, including the bid bond described in Part B of the ITT.
3. "Vancouver Time" will be conclusively deemed to be the time shown on the clock above the Supply Chain Management drop box on the 4th Floor of Vancouver City Hall.
4. The City of Vancouver is open on business days from 8:30 a.m. to 4:30 p.m., Vancouver Time, and is closed Saturdays, Sundays, and holidays.
5. DO NOT SUBMIT TENDERS BY FAX OR E-MAIL.
6. All queries related to the ITT should be submitted in writing to the attention of:

Brian Brennan, Contracting Specialist

Email: brian.brennan@vancouver.ca

(the "Contact Person")

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CONSTRUCTION SERVICES FOR PRELOADING VANCOUVER LANDFILL
PART A - INTRODUCTION

1.0 OVERVIEW OF PROJECT

1.1 The City of Vancouver (the “City”) invites Tenders for the preloading of an area at the Vancouver Landfill known as the future Construction & Demolition Material Recovery Plant or “C&D”.

1.2 The Work generally includes, but is not limited to:

- Earthworks including excavation, site preparation and movement of soil materials;
- Supply and installation of preloading clear crush and aggregate, geogrid, geotextile, and settlement gauges;
- Moving of utilities;
- Removal of preloading clear crush, geotextile and settlement gauges;
- Traffic Management; and
- Acting as the Prime Contractor on site.

1.3 The Work Site is located at 5400 72nd Street, Delta, British Columbia. The Work Site is further described in the Tender Documents, including the Site Plan attached as Appendix 3.

1.4 Schedule

Milestone	Date
Notice of Award	Thursday, October 25, 2018
Substantial Performance	Friday, August 16, 2019, or as directed by the Engineer
Total Performance	Friday, August 30, 2019, or as directed by the Engineer

1.5 IF A POTENTIAL TENDERER BELIEVES THAT THE CITY MAY BE UNABLE TO SELECT IT DUE TO A CONFLICT OF INTEREST, BUT IS UNCERTAIN ABOUT THIS, THE POTENTIAL TENDERER IS URGED TO CONTACT THE CONTACT PERSON AS SOON AS POSSIBLE WITH THE RELEVANT INFORMATION SO THAT THE CITY MAY ADVISE THE POTENTIAL TENDERER REGARDING THE MATTER. SEE SCHEDULE “L” FOR AN INDICATION OF THE TYPES OF CONFLICTS OF INTEREST THAT OFTEN ARISE.

1.6 The purpose of this ITT is to select a Tenderer with the capability and experience to efficiently and cost-effectively perform and complete the Work.

2.0 SUSTAINABILITY

2.1 The City’s Procurement Policy, Ethical Purchasing Policy and related Supplier Code of Conduct found at <http://vancouver.ca/doing-business/selling-to-and-buying-from-the-city.aspx> align the City’s approach to procurement with its corporate social, environmental and economic sustainability values and goals. They evidence the City’s commitment to maximize benefits to the environment through product and service selection, and to ensure safe and healthy workplaces, where human and civil rights are respected. Each Tenderer is expected to adhere to the supplier performance standards set forth in the Supplier Code of Conduct.

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PART A - INTRODUCTION

- 2.2 A Contractor is to provide environmentally sensitive products or services wherever possible. Where there is a requirement that a Contractor supply materials, and where such materials may cause adverse environmental effects, each Tenderer should indicate the nature of the hazard(s) in its Tender. Furthermore, each Tenderer should advise the City of any known alternatives or substitutes for such materials that would mitigate such adverse effects.
- 3.0 TENDER DOCUMENTS
- 3.1 The “Tender Documents” consist of the following and include the documents referred in Section 3.3 below:
- (a) Part A - Introduction, and its appendices:
 - (i) Appendix 1 - Mandatory Information Meeting Attendance Form;
 - (ii) Appendix 2 - Response Notification Form; and
 - (b) Part B - Terms and Conditions of ITT Process;
 - (c) Part C - Form of Tender (including all schedules),
 - (d) Part D - Form of Agreement (including all schedules);
 - (e) specifications (“Specifications”) for the Work (available separately and to be incorporated into the Contract when finalized);
 - (f) drawings (“Drawings”) for the Work (available separately and to be incorporated into the Contract when finalized);
 - (g) all addenda or amendments to the ITT, and all questions and answers in connection with the ITT, issued in writing by the City prior to the Closing Time, as well as any addenda, amendments or questions and answers issued in writing by the City after the Closing Time and accepted in writing by the Tenderers.
- 3.2 Specifications and Drawings other than those referred to in the following Section 3.3 are made available for Tenderers in Part D - Form of Agreement - Schedule 2.
- 3.3 The Specifications and Drawings also include the “Master Municipal Specifications and Standard Detail Drawings” contained within Volume II of the Master Municipal Construction Document, but all of Volume I and the following parts of Volume II thereof are hereby expressly excluded from the ITT: Instructions to Tenderers - Part II. General Conditions (including Schedule 17.5.3 Letter Agreement with Referee, Changes and Extra Work flow chart, and Dispute Resolution Process flow chart).
- 4.0 MANDATORY INFORMATION MEETING
- 4.1 Tenderers are required to attend the mandatory information meeting (the “Mandatory Information Meeting”) on Monday, September 17, 2018 commencing at 10:00 a.m.
- 4.2 The Mandatory Information Meeting will take place at the Landfill.
- 4.3 All persons attending the Mandatory Information Meeting on behalf of Tenderers must bring their own personal protective equipment (PPE) consisting of steel toe footwear, high visibility vests, and safety glasses.

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PART A - INTRODUCTION

- 4.4 Tenderers are asked to pre-register for the Mandatory Information Meeting by submitting the Mandatory Information Meeting Attendance Form (Appendix 1) to the Contact Person by email prior to Friday, September 14, 2018 at 3:00 p.m.
- 5.0 ADMINISTRATIVE REQUIREMENTS
- 5.1 Tenderers are asked to indicate their intentions to submit Tenders by submitting the Response Notification Form (Appendix 2) to the Contact Person by email on or before Friday, September 28, 2018.
- 5.2 It is the sole responsibility of each Tenderer to check the City's website at <http://vancouver.ca/doing-business/open-bids.aspx> regularly for addenda, amendments and questions and answers related to the ITT, which the City may issue at any time during the process, and for any reason, at its discretion.
- 6.0 CONDUCT OF ITT - INQUIRES AND CLARIFICATIONS
- 6.1 The City will have conduct of the ITT, and all communications are to be directed only to the Contact Person named on the cover page.
- 6.2 It is the responsibility of each Tenderer to thoroughly examine the Tender Documents and satisfy itself as to the full requirements of the ITT and their acceptability to the Tenderer.
- 6.3 The City welcomes inquiries, requests for clarification or comments from registered Tenderers. All inquiries or comments to the City must be in written form only. All inquiries, requests for clarification and comments must be e-mailed to brian.brennan@vancouver.ca prior to Friday, September 28, 2018, and must in each case be addressed to the attention of the Contact Person. In response to inquiries, requests for clarification or comments, the City, in its sole discretion, may make amendments to the ITT or may issue questions and answers to all Tenderers who have submitted a Response Notification Form and post them on the City's website.

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CONSTRUCTION SERVICES FOR PRELOADING- VANCOUVER LANDFILL
APPENDIX 1 (PART A) - INFORMATION MEETING ATTENDANCE FORM



CITY OF VANCOUVER
Supply Chain Management

Invitation to Tender No. PS20181106

To acknowledge your intent to attend the Mandatory Information Meeting and to ensure that you receive the required information, please submit this form to the person identified below in accordance with the ITT:

Brian Brennan
City of Vancouver
Email: brian.brennan@vancouver.ca

Your details:

Tenderer's Name:

"Tenderer"

Address:

Telephone:

Fax: _____

Key Contact Person:

E-mail:

We will attend the Mandatory Information Meeting for: ITT No. PS20181106, "CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL".

Signature

Name of Authorized Signatory (Please print)

E-mail Address (Please print)

Date

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APPENDIX 2 (PART A) - RESPONSE NOTIFICATION FORM



CITY OF VANCOUVER
Supply Chain Management

Invitation to Tender No. PS20181106

To acknowledge your intent to submit a Tender and to ensure that you receive the required information, please submit this form to the person identified below in accordance with the ITT:

Brian Brennan
City of Vancouver
Email: brian.brennan@vancouver.ca

Your details:

Tenderer's Legal
Name:

"Tenderer"

Address:

Telephone:

Fax: _____

Key Contact Person:

E-mail:

We WILL ☐ / WILL NOT ☐ submit a Tender in response to ITT No. PS20181106, "CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL".

Signature

Name of Authorized Signatory (Please print)

E-mail Address (Please print)

Date

1.0 DEFINITIONS AND INTERPRETATION

1.1 Definitions

The following capitalized terms have the meanings set out below when used in the Tender Documents, unless the context requires otherwise:

- (a) “City” means the City of Vancouver;
- (b) “Closing Time” has the meaning set out on the cover page of the ITT;
- (c) “Contract” means a contract substantially in the form of Part D - Form Agreement, to be entered into between the City and a successful Tenderer;
- (d) “Contractor” means a Tenderer, the Tender of which the City has accepted, and which Tenderer has consequently entered into a Contract;
- (e) “Drawings” means the portion of the Tender Documents consisting of the graphic and pictorial representations of the Work or Work requirements;
- (f) “Engineer” means the architect, engineer or other professional consultant who will act as the City’s agent for the purpose of managing and administering a Contract, who may be an employee of the City or an independent consultant engaged by the City on its behalf;
- (g) “Form of Agreement” means the form of agreement contained in the Part D - Form of Agreement part of the ITT;
- (h) “Form of Tender” means the form of tender prescribed in the Part C - Form of Tender part of the ITT;
- (i) “GST” means the tax payable and imposed pursuant to Part IX of the *Excise Tax Act* (Canada), as amended or replaced from time to time;
- (j) “Health and Safety Plan” has the meaning set out in Part B - Terms and Conditions of ITT Process and the Specifications (Part D - Form of Agreement, Schedule 2);
- (k) “ITT” means this Invitation to Tender No. PS20181106, including all Tender Documents;
- (l) “Information and Privacy Legislation” includes the *Freedom of Information and Protection of Privacy Act* (British Columbia) and the regulations thereunder;
- (m) “Losses” means, in respect of any matter, all:
 - (i) direct and indirect; and
 - (ii) consequential,

claims, demands, proceedings, losses, damages, liabilities, deficiencies, costs and expenses (including without limitation, all legal and other professional fees and disbursements, interest, penalties and amounts paid in settlement, whether from a third person or otherwise);
- (n) “Notice of Award” has the meaning set out in Part C - Form of Tender;

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PART B - TERMS AND CONDITIONS OF ITT PROCESS

- (o) "Notice to Proceed" has the meaning set out in Part C - Form of Tender;
- (p) "PST" means the provincial sales tax payable and imposed pursuant to the *Provincial Sales Tax Act* (British Columbia), as amended or replaced from time to time;
- (q) "Specifications" means the portion of the Tender Documents consisting of the written requirements and standards for products, systems, workmanship, quality, and the services necessary for the performance of the Work;
- (r) "Substantial Performance" means substantial performance of the Work such that, though not necessarily totally complete, it is ready for full use as intended and/or is fully functional as intended as a completed project and the Engineer in writing in accordance with the Contract has certified it as such;
- (s) "Tender" means a tender submitted to the City in response to the ITT;
- (t) "Tender Contract" means the contract between the City and each Tenderer governing the ITT process;
- (u) "Tender Documents" means the documents identified as such in Part A - Introduction part of the ITT;
- (v) "Tenderer" means a person or organization submitting a Tender;
- (w) "Tender Price" means the monetary amount a Tenderer proposes in its Tender, in the space provided therefor in the Form of Tender, as its all-inclusive, total fee, including, without limitation, all applicable taxes, to carry out and complete the Work in accordance with the Contract;
- (x) "Total Performance" means, as certified in writing by the Engineer in accordance with the Contract, the total, complete performance of the Work as required under the Contract, including correction of all deficiencies, but excluding any warranty work required during warranty periods under the Contract;
- (y) "Work" means the total construction and related services required by the Tender Documents; and
- (z) "Work Site" or "Site" means the place or places where the Work is to be carried out.

All other capitalized terms used in the ITT have the meanings given to them elsewhere in the ITT.

1.2 Interpretation

- (a) In the Tender Documents, any reference to the masculine, the feminine or the neuter includes the others unless the context requires otherwise. Also, any reference to the singular includes the plural where appropriate.
- (b) If there is a conflict between (i) the Specifications and Drawings and (ii) the other Tender Documents, the other Tender Documents shall prevail over the Specifications and Drawings.
- (c) In these Tender Documents, the word "should" and the terms "is asked to" and "are asked to" are used to denote actions or Tender inclusions that, while not mandatory, are strongly recommended. In contrast, the terms "will", "shall", "must", "is to", "are to", "is required to" and "are required to" are used to denote mandatory

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PART B - TERMS AND CONDITIONS OF ITT PROCESS

requirements of the ITT. If a Tenderer is uncertain as to whether or not a particular action or Tender inclusion is mandatory, the Tenderer should submit an inquiry to the Contact Person.

2.0 SUBMISSION INSTRUCTIONS

- 2.1 Each Tenderer must complete its Tender on the Form of Tender and submit its Tender in accordance with the instructions set forth on the cover page of the ITT and elsewhere herein.
- 2.2 Any Tender received after the Closing Time may be returned unopened to the Tenderer.
- 2.3 Faxed or emailed Tenders and/or other documents will not be accepted.
- 2.4 Each Tender must be signed by an authorized signatory or authorized signatories of the Tenderer (as necessary for due execution on behalf of the Tenderer). Each Tender by a company or partnership should specify the full legal name of the legal entity submitting the Tender.
- 2.5 All blank spaces in the Form of Tender should be filled in and all schedules completed. Any failure by a Tenderer to complete the Form of Tender may result in preference being given to competing Tenderers. All prices and notations should be legibly written in a non-erasable medium. Erasures, interlineations or other corrections should be initialled by an authorized signatory of the Tenderer.
- 2.6 Subject to any alternatives or options in respect of which the City requests pricing or other information in a Schedule to the Form of Tender, Tenders are to be all inclusive and without qualification or condition.
- 2.7 The City may, at any time and for any reason, extend the Closing Time by means of a written amendment published on the City's website, as set out in Part A - Introduction.
- 2.8 A Tenderer that has already submitted a Tender may amend its Tender prior to the Closing Time: a) by submitting an amendment identifying a plus or minus variance to the Tenderer's Tender Price; or b) by sending in a completely new Tender, clearly indicating it replaces the previously submitted Tender. Any such revision must clearly identify the ITT number and the Closing Time. A Tender revision submitted as aforesaid shall effectively amend the Tender and the City shall only review and evaluate the Tender as amended.
- 2.9 The City will not be responsible for any cost incurred by any Tenderer in preparing a Tender.

3.0 BONDS

- 3.1 Tenders will be irrevocable and each offer made therein shall remain open for acceptance by the City for a period of ninety (90) calendar days after the Closing Time. Each Tender must be accompanied by a bid bond valid for a period of ninety (90) calendar days commencing on the Closing Time, payable to the "City of Vancouver", in the amount of ten percent (10%) of the Tender Price, and not a dollar amount, as a guarantee of the due execution of a Contract and the delivery of the performance bond and labour and materials payment bond required by the Form of Tender. The forms of these bonds are to be those issued by the Canadian Construction Documents Committee as follows:

Bid Bond: CCDC 220 (latest)

Performance Bond: CCDC 221 (latest)

Labour and Material Payment Bond: CCDC 222 (latest)

- 3.2 Each Tender must be accompanied by a “Consent of Surety”, substantially in the form provided as a schedule to the Form of Tender, duly completed by a surety company authorized and licensed to carry on business in British Columbia.
- 3.3 The bid bonds of unsuccessful Tenderers will be returned to them as soon as possible after the Contract is awarded and the bid bond of the Tenderer to whom the award is made will be returned upon execution of the Contract, delivery of a performance bond for 50% of the Tender Price and a labour and material payment bond for 50% of such price, commencement of the Work, and compliance with any other conditions set out in the Form of Tender. The cost of all bond premiums must be included in the Tender Price.
- 3.4 All bonds must be issued by a surety company authorized and licensed to carry on business in British Columbia.

4.0 TENDER PRICE

- 4.1 Subject to any adjustment for changes to the Work, which is approved by the City in accordance with the Tender Documents or Contract Documents, the Tender Price shall be the maximum compensation owing to the Contractor for the Work and the Contractor’s compensation shall cover and include all profit and all costs of supervision, labour, material, equipment, overhead, financing and all other costs and expenses whatsoever incurred in performing the Work.
- 4.2 If unit prices or other price breakdowns are requested in a schedule to the Form of Tender, such information should be included in the Tender. Furthermore, if such unit prices or other price breakdowns are requested in a schedule to the Form of Tender, such amounts may be used to compute interim progress payments and will be reviewed by the City in its evaluation of Tenders; therefore Tenderers should ensure that such amounts accurately reflect their costs for each item. A Tenderer may be required to justify any submitted unit price or other price breakdown.
- 4.3 If an itemized breakdown of the Tender Price is requested in a schedule to the Form of Tender, the City may delete any items in order to meet any budget limitation and award a Contract for only the remaining items to a Tenderer who is agreeable thereto.

5.0 ACCEPTANCE OF TENDERS

- 5.1 Despite anything to the contrary contained in the ITT or the Tender Documents:
- (a) the City need not accept the Tender with the lowest Tender Price or any Tender at all and may reject any and all Tenders at any time, cancel and withdraw the ITT at any time without prior notice or further explanation or accept any Tender, regardless of Tender Price, that is considered advantageous to the City;
 - (b) acceptance of any Tender in whole or in part is contingent on funds being approved and a contract award being made by, or pursuant to authority delegated by, Vancouver City Council and the compliance of the Tenderer with the conditions required to be satisfied upon receipt of a Notice of Award;
 - (c) Tenders which do not conform to the requirements of the ITT may or may not be disqualified or rejected, and the City may or may not waive any non-conformity, including any material non-conformity, irregularity or anomaly, and including any non-

compliance as to the timing of delivery of anything required by or any other requirements of the ITT, and the City may at its sole discretion elect to retain for consideration Tenders which are non-conforming because they do not contain the content or form required by the ITT or because they have not complied with the process for submission set out in the ITT.

- (d) Where the City, in its sole discretion, is of the view that there is anything in any Tender(s) which causes uncertainty about the meaning or intent of any part(s) thereof and which cannot be resolved or clarified from examination of the contents of the Tender(s), then whether or not any such uncertainty actually exists on the face of the Tender, the City may, at any time prior to any Contract award, solicit and/or accept clarification therefor from the Tenderer. Such clarifications may include the City's solicitation and/or acceptance of further documentation or information which will then form part of the Tender. The City's solicitation and/or acceptance of such clarifications from any Tenderers may be exercised without any duty or obligation to inform any other Tenderers thereof or to allow them to modify their Tenders in any way, and the City will have no liability to any Tenderer for any Losses of any kind as a result of any such solicitations and/or acceptances of such clarifications.
- (e) The City's acceptance of any Tender will be based on the City's evaluation of Tenders to determine which of them, if any, in the City's opinion, offers the best overall value to the City taking into account its objectives, goals, resources, policies and any other considerations it may wish to apply. While Tender Price will be an important consideration in that evaluation, the City may take into account other factors affecting overall value, including, without limitation, any concerning methodology proposed, sustainability or Tenderer work history, reputation or experience. The City may also consider overall net impact of Tender Prices on City finances (including both capital and operating costs).
- (f) If the City determines that all Tender Prices are too high or that none of the Tenders offers the City the overall value it seeks, all Tenders may be rejected.
- (g) The City, on its own initiative, prior to accepting any Tender, may negotiate and reach agreement with any one or more Tenderers, whose Tenders, in the City's opinion, offer it the best overall value, to change the scope of the Work and/or modify a Tender and/or the Contract, and the City may do so in each and every case without having any duty or obligation of any kind to inform any other Tenderers thereof or to allow them to modify their Tenders in any way as a result thereof, and the City will have no liability to any other Tenderer for any Losses of any kind resulting therefrom. Notwithstanding the foregoing, all Tenders when submitted to the City pursuant to the ITT must nevertheless conform to the requirements of the ITT and must not propose any variations to the Work or the Contract.
- (h) Each Tenderer acknowledges and agrees that the City will not in any circumstances be liable to the Tenderer for any Losses of any kind it may suffer, incur or experience as a result or arising out of its submission of a Tender hereunder, the City's acceptance or non-acceptance of the Tender or any part thereof, any breach by the City of the Tender Contract between the City and the Tenderer or any Tender acceptance and/or Contract award made not strictly in accordance with the contents of ITT.
- (i) The City may award a Contract on the basis of policies and preferences not stated in the Tender Documents or otherwise than as stated in the Tender Documents.

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- (j) Prior to any Contract award, a Tenderer may be required to demonstrate financial stability. Should the City so request, a Tenderer may be required to provide annual financial reports or a set of financial statements prepared by an accountant.
- (k) Any and all City guidelines or policies applicable to the ITT will not give rise to any legal rights on the part of any Tenderer, Contractor, subcontractor, supplier, or other person as against the City and will in no case create any liability on the part of the City. In particular, but without limitation to the foregoing, the City's Procurement Policy, as amended or replaced from time to time, is merely an internal guideline for the City and does not create any legal rights for any Tenderer or anyone else or impose upon the City any legal obligations to any Tenderer or anyone else with respect to the ITT.
- (l) The City may reject any Tender by a Tenderer that has engaged in collusion with another Tenderer or otherwise attempted to influence the outcome of the ITT other than through the submission of its Tender.
- (m) The City, in its sole discretion, may elect to accept for consideration Tenders that contain conditions or qualifications that are in the nature of corrections of typos or internal inconsistencies in the ITT or the Form of Agreement or that represent immaterial changes to the Form of Agreement and do not consist of changes of substance or changes to allocations of risk, or with respect to the scope of any Work, that are for the avoidance of uncertainty only and do not in substance involve any deviation from the requirements of the ITT. This Section 5.1(m) is a reservation of rights for the benefit of the City and no Tenderer may rely on this paragraph to qualify its Tender.

6.0 AWARD OF CONTRACT

- 6.1 Award of a Contract will be subject to approval by, or pursuant to authority delegated by, the City's Mayor and Council and the Tenderer's compliance with the conditions required to be met upon receipt of the Notice of Award.
- 6.2 Any successful Tenderer will become a Contractor and will be required to sign a Contract with the City, subject to any amendments approved by the City in writing.

7.0 EXAMINATION OF TENDER DOCUMENTS

- 7.1 Each Tenderer should carefully examine all Tender Documents and must also satisfy itself of the extent of the Work. Each Tenderer must make its own estimate of the facilities and difficulties attending the performance and the completion of the Work.
- 7.2 No allowance will be made on behalf of a Contractor for any error, omission or negligence on the Contractor's part or for non-compliance with the requirements of the foregoing clause 7.1.

8.0 SITE EXAMINATION/PRE-SUBMISSION DUE DILIGENCE BY TENDERER

- 8.1 Tenderers should make a careful examination of the Work Site and investigate and satisfy themselves at their own risk and expense as to all matters relating to the nature and extent of the Work, the means of access to the Work Site, the extent of required coordination with public use of adjacent areas, and any and all matters which are referred to in the Specifications and Drawings and other Tender Documents, or which are necessary for the full and proper completion of any Work or are required by the conditions under which it must be performed. No allowance will be made subsequently for any error, negligence, interpretation, or misinterpretation on a Contractor's part.

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- 8.2 The City and the Engineer do not make any representations or warranties concerning the completeness or accuracy of Work Site and geotechnical information (if any) provided in or with the Tender Documents, and each Tenderer must evaluate such information as part of its overall assessment of actual Work Site conditions.
- 8.3 If any Tenderer wishes to evaluate any Work Site conditions, and, for that purpose, requires access or documents from the City beyond the access and documents already provided for in the ITT, the City encourages the Tenderer to submit a written request to the City as far in advance of the Closing Time as is possible. The City will then consider whether or not to facilitate the request. In response to such a request, the City may elect to, itself, undertake a particular study and distribute the results to all Tenderers.

9.0 INTERPRETATION AND CLARIFICATIONS

- 9.1 If any Tenderer is in doubt as to the correct interpretation of any part of the Specifications, Drawings, or other Tender Documents, the Tenderer should request an interpretation of the same from the City by the time stated in Part A - Introduction, Section 6.3. In the absence of such a request, the Tenderer's Tender will be presumed to be based upon the interpretation that may be subsequently given in accordance with the Contract Documents, after award of a Contract.
- 9.2 Prior to the Closing Time, requests for clarification of the Specifications, Drawings, or other Tender Documents may be answered in writing by the City and sent to all prospective Tenderers who have submitted a Response Notification Form on or before the indicated deadline. The City is not responsible for any other explanations or interpretations of the Specifications, Drawings or other Tender Documents.

10.0 PRODUCT APPROVAL

- 10.1 Wherever any material, machinery, equipment or fixture (any "Product") is specified or shown in the Tender Documents by reference to a proprietary item, product or model number, catalogue number, manufacturer or trade name or similar reference, each Tenderer obligates itself to submit its Tender and, if applicable, accept award of a Contract based upon the use of such Product. Use of any such reference in the Tender Documents is intended to establish the measure of quality which the City (or its Engineer) has determined to be requisite and necessary for the Work. Where two or more Products are shown or specified, the Contractor has the option of which to use.
- 10.2 For approval of Products other than those specified in the manner described in the preceding paragraph, a Tenderer should submit in writing to the City, at least five business days prior to the Closing Time, a request for approval thereof. Such requests for approval must clearly define and describe the Product for which approval is requested. Requests should be accompanied by manufacturer's literature, specifications, drawings, cuts, performance data or other information necessary to completely describe the items. Approval by the City will be given only in the form of an addendum to the Specifications issued by the City.
- 10.3 Approvals of non-specified Products pursuant to the preceding paragraph shall be effective only if such Products conform technically to the Specifications.

11.0 INSURANCE

- 11.1 Each Tenderer should ensure that it can maintain the insurance described in the Form of Agreement (Part D).

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PART B - TERMS AND CONDITIONS OF ITT PROCESS

11.2 The Tenderer should complete and submit the “Certificate of Existing Insurance” attached as a Schedule to the Form of Tender, together with the “Undertaking of Insurance” attached as a Schedule to the Form of Tender.

11.3 Following Contract award, a successful Tenderer will be required to complete a “Certificate of Insurance” for the Work, a copy of which is attached as a schedule to the Form of Tender.

12.0 WORKSAFEBC

12.1 The Tenderer should ensure that it can comply with all WorkSafeBC requirements, as described in the Form of Agreement (Part D).

13.0 LABOUR RATES AND EQUIPMENT

13.1 Tenderers should provide, if requested in a schedule to the Form of Tender, the force account labour and equipment rates setting out the all-inclusive hourly rates for all applicable types of equipment as well as the all-inclusive hourly rates for all applicable categories of labour, which rates will then apply pursuant to any Contract.

14.0 LISTS OF SUBCONTRACTORS AND SUPPLIERS

14.1 Tenderers must provide, if requested in a schedule to the Form of Tender, lists of proposed subcontractors and suppliers, specifying the name and address of, and the portion of the Work to be completed by, or the equipment or materials to be supplied by, each proposed subcontractor or supplier.

14.2 The City reserves the right to object to any of the proposed subcontractors or suppliers listed in a Tender. If the City objects to a listed subcontractor or supplier, then the City will permit a Tenderer to propose a substitute subcontractor or supplier acceptable to the City. A Tenderer will not be required to make such a substitution and, if the City objects to a listed subcontractor or supplier, the Tenderer may, rather than propose a substitute subcontractor or supplier, consider its Tender rejected by the City and, by written notice, withdraw its tender. The City shall, in that event, return the Tenderer’s bid security.

15.0 TAXES AND FEES

15.1 The successful Tenderer will be required to obtain and pay for any applicable municipal, provincial and federal permits and licences necessary for the proper completion of the Work. The City will not be liable in any manner for the same, and the successful Tenderer agrees to indemnify and save the City harmless from and against all claims and Losses in relation to obtaining and paying for any applicable municipal, provincial and federal permits and licences necessary for the proper completion of the Work.

15.2 Each Tenderer’s Tender Price (and each other price offered by the Tenderer in its Tender, if applicable) must, unless otherwise expressly stated, be inclusive of all applicable municipal, provincial, federal and other taxes, and all customs and excise duties and other assessments and charges, including sales taxes assessed upon the sale of goods and services to the City under the Contract, and the successful Tenderer agrees to indemnify and save the City harmless from and against all claims which shall be made with respect thereto.

16.0 NON-RESIDENT WITHHOLDING TAX

16.1 Tenderers are advised that, if the Contractor is not a resident of Canada, federal tax legislation may require that a certain percentage of any Contract Price otherwise payable to the Contractor be withheld by the City and remitted to the Receiver-General for Canada. The

percentage required to be withheld and remitted varies depending on, among other things, the country of residence, the provisions of any applicable tax treaties and the nature of the payment. Non-resident Tenderers may contact the Vancouver office of the Canada Revenue Agency for further details. Under any Contract, any and all money so withheld and remitted shall be treated as a payment to the Contractor against the Contract Price.

17.0 NO CLAIM AGAINST THE CITY

- 17.1 The Tenderer acknowledges and agrees that the City will not be in any way liable to the Tenderer for any Losses of any kind suffered, incurred or experienced by the Tenderer in connection with the ITT, including, without limiting the generality of the foregoing, any Losses of any kind suffered, incurred or experienced by the Tenderer and directly or indirectly caused by any act or omission of the City or breach of any agreement or duty by the City, express or implied, and by submitting a Tender each Tenderer shall be deemed to have agreed that it has no claim whatsoever against the City for any such Losses.
- 17.2 The Tenderer will indemnify the City and its employees, advisors or representatives (including the Engineer) and hold them harmless from and against any and all demands, claims, actions or suits or threatened demands, claims, actions or suits against the City or any of its employees, advisors or representative (including the Engineer) by any of the Tenderer's subcontractors or materials or equipment suppliers alleging, demanding, claiming or pleading Losses by:
- (a) a breach of the Tender Contract by the City or any of its employees, advisors or representatives (including the Engineer);
 - (b) an unintentional tort, of the City or any of its employees, advisors or representatives (including the Engineer), occurring in the course of conducting the ITT; or
 - (c) liability on any other basis related to the ITT or the Tender Contract.

18.0 DISPUTE RESOLUTION

- 18.1 Any dispute relating in any manner to the ITT, except only disputes arising between the City and any Tenderer to whom the City has made an award of a Contract and which arise under such Contract, will be resolved by arbitration in accordance with the *Commercial Arbitration Act* (British Columbia), amended as follows:
- (a) The arbitrator will be selected by the City's Director - Supply Chain Management;
 - (b) Sections 17.1 and 17.2 above will:
 - (i) bind the arbitrator, the Tenderer and the City; and
 - (ii) survive any and all awards made by the arbitrator; and
 - (c) The Tenderer will bear all costs of the arbitration.

19.0 CONFIDENTIALITY AND PRIVACY

- 19.1 Each Tender, once submitted to the City, will be held in accordance with the City's role as a public body required under Information and Privacy Legislation to protect or disclose certain types of records according to certain statutory rules. Each Tender, upon submission to the City, will be received and held in confidence by the City, unless and to the extent that it is or must be disclosed pursuant to Information and Privacy Legislation or other applicable legal requirements, and except that the City may publicly disclose information about or from

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
PART B - TERMS AND CONDITIONS OF ITT PROCESS

Tenders, including without limitation names and prices, in the course of publicly reporting to the Vancouver City Council about the ITT.

- 19.2 Unsuccessful Tenderers shall, forthwith at the City's request, destroy or return to the City all copies and originals (in any format or medium) of the Tender Documents.

20.0 RELEASE OF INFORMATION RESTRICTED

- 20.1 The release of information about Tenders is restricted. Tenderers may attend the opening and registering of Tenders (referred to on the cover page of the ITT) in order to obtain information concerning the names of the other Tenderers who have submitted a Tender and the Tender Price shown on each Form of Tender. However, no other information is anticipated to be disclosed by the City.

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CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL PART C - FORM
OF TENDER

Tender of:			
	Legal Name of Person, Partnership or Corporation (the "Tenderer")		
Business Address:			
Postal or Zip Code:			
Cheques Payable to/Remit to Address:			
Postal or Zip Code:			
Key Contact Person:			
Telephone No.:		Fax No.:	
E-mail:			
Tax Registration Numbers (as applicable):			
Dun & Bradstreet Number (if available):		WorkSafeBC Account Number:	
City of Vancouver Business License Number (or, if available, Metro West Inter- municipal Business License Number):		Date, Jurisdiction and Form of Organization (as applicable):	

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL PART C - FORM
OF TENDER

1.0 TENDER PRICE AND SCHEDULE

Having carefully read and examined the Tender Documents, and on agreeing to the terms and conditions set out in Parts A and B of the ITT, the undersigned Tenderer (for purposes of this Tender, the "Tenderer") offers to complete the Work and to furnish all plant, tools, equipment, labour, products, material and supervision necessary therefor, and to enter into an agreement in the form of the Form of Agreement set forth as Part D of the ITT to execute the Work, for the Tender Price specified below.

ITT NO. PS20181106

The Tender Price (including all costs, taxes and fees)(as per Schedule A), is _____ dollars
and _____ cents (\$_____)

The Tender Price includes all PST and GST.

The Tenderer's offer to complete all of the Work is an offer made according to the following schedule:

- (a) The Work will begin by Friday, November 16, 2018, subject to the City issuing a Notice to Proceed; and
 - (i) Substantial Performance will occur by Friday, August 16, 2019 or as directed by the Engineer; and
 - (ii) Total Performance will occur by Friday, August 30, 2019, or as directed by the Engineer.

2.0 ELECTRONIC PAYMENTS ACKNOWLEDGEMENT

If awarded a contract, the Tenderer agrees that all payments to be made by the City will be by electronic funds transfer, and for that purpose the Tenderer will provide the City with the necessary banking information to facilitate this process.

3.0 IRREVOCABILITY; NOTICE OF AWARD

The Tenderer agrees that this Tender is irrevocable and open for City's acceptance for a period of ninety (90) calendar days commencing at the Closing Time, even if the Tender of another Tenderer is accepted by the City prior to that time. If within that period the City delivers to the Tenderer a written notice by which the City accepts the Tender (a "Notice of Award"), the Tenderer will, within ten (10) Working Days of the receipt of the Notice of Award, deliver to the City:

- (a) a performance bond and a labour and material payment bond, each in the amount of fifty percent (50%) of the Tender Price, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the City;
- (b) a detailed construction schedule consistent with the preliminary construction schedule included in this Tender, which indicates the timing of the major activities of the Work and provides sufficient detail of the critical events and their inter-relationship to

demonstrate such Work will be performed in accordance with the completion dates stated in this Tender;

- (c) a detailed traffic management plan addressing vehicular and pedestrian movement, safety and access with specific detailing on methods, signage and materials used to maintain Work Site operations and access to staff and public users of the Work Site;
- (d) a detailed Work Site-specific safety and health plan addressing the requirements listed in the Specifications;
- (e) a WorkSafeBC number and a “clearance letter” confirming that the Tenderer is in WorkSafeBC compliance;
- (f) a valid City of Vancouver or MetroWest Inter-Municipal business licence;
- (g) banking details to support payments by Electronic Funds Transfer (EFT);
- (h) a completed and signed Certificate of Insurance (in the form attached as a schedule to this Form of Tender) indicating that all of the insurance coverage required by the Contract is in place; and
- (i) a completed Contractor’s Pre-Contract Hazard Assessment Form (in the form of Schedule 11 to the Form of Agreement).

4.0 NOTICE TO PROCEED

The Tenderer agrees that upon the City’s receipt and acceptance (in the City’s discretion) of the required submissions listed above, the Tenderer will, within two (2) Working Days, execute the Contract and all other Contract Documents requiring execution (in each case, as prepared by the City for execution) and return them to the City as executed and that, upon the City’s receipt and acceptance thereof, the City may deliver to the Tenderer a Notice to Proceed and the Tenderer will then:

- (a) commence the relevant Work within two (2) Working Days of the receipt of the Notice to Proceed or such longer time as may be otherwise specified in the Notice to Proceed; and
- (b) issue and post a “Notice of Project” as and when required under section 20.2 of the *Occupational Health & Safety Regulation* (BC Regulation 296/97) and at the same time provide the City with a true copy thereof.

5.0 CONDITIONS

- (a) The Tenderer agrees that if the Tenderer receives a Notice of Award or a Notice to Proceed and fails or refuses to comply with the requirements stated in the foregoing clause 3.0 or clause 4.0, as the case may be, then such failure or refusal will be deemed to be a repudiation of the Tender Contract and refusal to enter into the relevant Contract and the City may, on written notice to the Tenderer, award the Contract to another party. It is further agreed that, as full compensation on account of damages suffered by the City because of such failure or refusal, the bid security shall be forfeited to the City in the amount equal to the lesser of:
 - (i) the face value of the bid security; and

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL PART C - FORM
OF TENDER

- (ii) the amount by which the Tender Price is less than the amount for which the City contracts with another party to perform the Work.
- (b) The lowest or any submitted Tender will not necessarily be accepted. The City reserves the right to reject this Tender at any time without further explanation and to accept any Tender considered advantageous to the City.
- (c) The schedules attached to this Form of Tender are an integral part of the same.

6.0 ADDENDA, AMENDMENTS AND QUESTIONS AND ANSWERS

The Tenderer acknowledges receipt of the following addenda, amendments and questions and answers to the Tender Documents:

Addendum No.
Amendment No.
Questions and Answers No.

The Tenderer agrees that it thoroughly understands and accepts the terms and conditions contained therein.

7.0 CERTIFICATION

The Tenderer represents and warrants that this Tender complies in all respects with the Tender Documents.

8.0 LABOUR

The above stated price is based on the Work under the Contract being performed by union/non-union labour. (Delete "union" or "non-union" as applicable).

9.0 CONTRACT TERMS IN THE ITT

Without limitation, the Tenderer expressly agrees with the City to all of the terms and conditions set forth in Part A and Part B of the ITT and that it is bound thereby.

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL PART C - FORM
OF TENDER

SIGNED on behalf of the Tenderer this _____ day of _____ 20____ by _____ the _____ duly
authorized signatory or signatories of the Tenderer:

Per: _____

Name and Title: _____

Per: _____

Name and Title: _____

If the Tenderer has a corporate seal, the
corporate seal should be applied in the
space below:

If the Tenderer is an individual, a proprietorship or a
partnership, the above signature(s) should be
witnessed:

Witness signature

Witness name

Witness address

SCHEDULE "A"

SCHEDULE OF QUANTITIES AND PRICES

EACH TENDERER MUST COMPLETE THIS SCHEDULE A, AS AMENDED, IN FULL. EACH PAGE OF THIS SCHEDULE A MUST BE INITIALLED BY THE SIGNATORIES OF THE FORM OF TENDER. TENDERS MUST NOT BE SUBMITTED WITHOUT A COMPLETED AND DULY EXECUTED SCHEDULE A.

NOTE: The contents of this Schedule A are contained on a separate Excel spreadsheet which can be found on the FTP site specified in Part A - Introduction - Section 3.2. Pricing is to be entered into the Excel spreadsheet and submitted, within the Tender, in the form of one (1) completed hard copy and one (1) soft copy on a USB stick or flash drive. Each hard copy should be initialled by the signatories of the Form of Tender.

The Tender Price is to be itemized, apportioned and set out on the Excel spreadsheet for this Schedule A in accordance with the table shown thereon. The prices Tenderers put into each of the numbered rows of the table shall include (i) all labour, material and other costs, (ii) overhead and profit, (iii) PST, and (iv) all other taxes, duties, assessments, charges and fees, *except for GST*. GST shall be shown separately on the row provided therefor.

EVERY ROW OF THE TABLE SHOULD BE COMPLETED WITH A DOLLAR AMOUNT, EVEN IF THAT DOLLAR AMOUNT IS \$0.

NOTE: Prices should be PST-inclusive. Only GST is to be shown as a separate line item.

The sum of the amounts shown in the table below should equal the Tender Price stipulated in the space provided in the Form of Tender which, for greater certainty, is the Tenderer's proposed Contract Price for a Contract to complete all of the Work.

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CONSTRUCTION SERVICES FOR PRELOADING- VANCOUVER LANDFILL
SCHEDULE "A" (PART C - FORM OF TENDER)

Item	Description	Unit	Estimated Quantity	Unit Price	Amount (including PST)	GST
SECTION 1 - CIVIL WORKS						
1.00	TEMPORARY FACILITIES					
1.01	Mobilization	L.S.	1			
1.02	Demobilization	L.S.	1			
2.00	TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING					
2.01	Traffic Management	L.S.	1			
3.00	CLEARING AND GRUBBING					
3.01	Clearing & Grubbing	sq.m	12,800			
4.00	GEOGRID SUPPLY & PLACEMENT					
4.01	Polypropylene Geogrid TriAx® TX140 Geogrid or Equivalent	sq.m	12,800			
4.02	Medium Weight Non-Woven Geotextile (Filter Fabric)	sq.m	12,800			
5.00	AGGREGATES AND GRANULARS					
5.01	Provision and Placement of 19 mm minus Aggregate Crush for Preload Surcharge at 0.5m thick.	tonne	10,240			
5.02	Provision and Placement of 5-25 mm Clear Crush for Preload Surcharge between 0.5m and 3m elevation as per drawings TLO168 & TLO169.	tonne	44,632			
5.03	Placement of Preload 19 mm minus Aggregate Crush provided by the Owner.	tonne	3,200			
6.00	SETTLEMENT GAUGES					
6.01	Settlement Gauges	each	21			
7.00	5-25mm AGGREGATE REMOVAL & PLACEMENT IN NEW LOCATION					
7.01	Removal of 5-25mm Clear Crush to Location within Landfill less than 1km.	tonne	33,474			
8.00	REMOVAL OF FILTER FABRIC					
8.01	Removal of Filter Fabric between 5-25mm Clear Crush and 19mm minus Crush.	L.S.	1			
					Amount (including PST)	GST
Sub-Total Section 1 - Civil Works						
Tender Price (including PST and GST)						

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE "B" (PART C - FORM OF TENDER)

SCHEDULE "B"

PRELIMINARY CONSTRUCTION SCHEDULE

The Work is expected to begin by Friday, November 16, 2018, and substantial performance is targeted for Friday, August 16, 2019 or as directed by the Engineer. Please clearly define time requirements for project milestones identified in the table below. If necessary, please add an attachment to this Schedule.

For further information on schedule and construction sequencing requirements please review the Specifications and Drawings.

TABLE 1 - PROJECT MILESTONES	
Milestone	Date of Completion
Notice of Award	Thursday, October 25, 2018
Project Kickoff Meeting	
Contractor Mobilization	
Substantial Performance	Friday, August 16, 2019 or as directed by the Engineer
Total Performance	Friday, August 30, 2019 or as directed by the Engineer

Additional pages may be attached to this page. Each such additional page is to be clearly marked "ITT No. PS20181106, FORM OF TENDER - SCHEDULE B", and is to be signed by the Tenderer.

SCHEDULE "C"

SUBCONTRACTORS AND SUPPLIERS

1.0 SUBCONTRACTORS

The Tenderer intends to use the following subcontractors for the portions of the Work identified below. All subcontractors who will perform any portion of the Work should be listed. The Tenderer must utilize only those Subcontractors and Suppliers named in Schedule "C"; any substitutions require prior written approval from the Engineer. The Tenderer should supply CV's for all Subcontractors and Suppliers listed below.

Subcontractor	Address	Type of Work

Additional pages may be attached to this page. Each such additional page is to be clearly marked "ITT No. PS20181106, FORM OF TENDER - SCHEDULE C", and is to be signed by the Tenderer.

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE "C" (PART C - FORM OF TENDER)

2.0 SUPPLIERS

The Tenderer intends to use the following suppliers and manufacturers for the Work. The Tenderer must utilize only those Suppliers and Manufacturers named in Schedule "C"; any substitutions require prior written approval from the Engineer.

Supplier	Manufacturer	Supplier Address	Item

Additional pages may be attached to this page. Each such additional page is to be clearly marked "ITT No. PS20181106, FORM OF TENDER - SCHEDULE C" and are to be signed by the Tenderer.

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE "D" (PART C - FORM OF TENDER)

SCHEDULE "D"

TENDERER'S EXPERIENCE WITH RELATED WORK

Tenderers should confirm that they and their proposed subcontractors have the required experience to perform the Work. Each Tenderer should submit information concerning a minimum of three completed projects similar in scope and size to the Work, for each of itself and its proposed subcontractors, including the following information:

Description of Project:

Location of Project:

Contract Value: \$ (Cdn. Dollars)

Start and Completion Dates:

Completed on Schedule? Yes No (Circle Correct Response)

Name of Contract City:

Name of Project Reference:

Current Telephone Number and E-mail of Project Reference:

Names of Key Personnel and Subcontractors:

Description of Project:

Location of Project:

Contract Value: \$ (Cdn. Dollars)

Start and Completion Dates:

Completed on Schedule? Yes No (Circle Correct Response)

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CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE "D" (PART C - FORM OF TENDER)

Name of Contract City:

Name of Project Reference:

Current Telephone Number and E-mail of Project Reference:

Names of Key Personnel and Subcontractors:

Description of Project:

Location of Project:

Contract Value: \$ (Cdn. Dollars)

Start and Completion Dates:

Completed on Schedule? Yes No (Circle Correct Response)

Name of Contract City:

Name of Project Reference:

Current Telephone Number and E-mail of Project Reference:

Names of Key Personnel and Subcontractors:

Additional pages may be attached to this page. Each such additional page is to be clearly marked "ITT No. PS20181106, FORM OF TENDER - SCHEDULE D", and is to be signed by the Tenderer.

September 6, 2018

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Name of Tenderer

Initials of Signing Officer

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE "E" (PART C - FORM OF TENDER)

SCHEDULE "E"

FORCE ACCOUNT LABOUR & EQUIPMENT RATES

Tenderers should complete the following tables setting out the non-operated hourly rates for all applicable types of equipment as well as the all-inclusive hourly rates for all applicable categories of labour, which rates will then apply pursuant to any Contract.

TABLE 1 - SCHEDULE OF LABOUR RATES

Job Classification	Regular Rate	Overtime Rate
	\$	\$
	\$	\$
	\$	\$
	\$	\$
	\$	\$
	\$	\$

TABLE 2 - SCHEDULE OF EQUIPMENT RATES

No.	Equipment Description	Hourly Rate	No. of Hours	Overhead And Profit	Total Price
		\$		\$	\$
		\$		\$	\$
		\$		\$	\$
		\$		\$	\$
		\$		\$	\$

Labour and material rates must be inclusive of all taxes except for GST, and all assessments, benefits, small tools, overhead and profits. Payment for Force Account Work performed by the Contractor, including applicable mark-ups, shall be in accordance with GC. 73.

Additional pages may be attached to this page. Each such additional page is to be clearly marked "ITT No. PS20181106, FORM OF TENDER - SCHEDULE E", and is to be signed by the Tenderer.

SCHEDULE "F"

FORM OF CONSENT OF SURETY

PROJECT: _____

Should it be required, we the undersigned Surety Company do hereby undertake to become bound as a surety in an approved Contract Performance Bond and Labour and Material Payment Bond, each in the amount of fifty percent (50%) of the awarded Contract Price for the fulfillment of the Contract, which may be awarded to _____ at the Tender Price set forth in the attached Tender, which Performance Bond and Labour and Material Payment Bond we understand are to conform to the applicable CCDC forms and be filed with the City within 10 Working Days of receipt of Notice of Award of the Contract, unless otherwise directed by the City.

We hereby further declare that the undersigned Surety Company is legally entitled to do business in the Province of British Columbia and that it has a net worth over and above its present liabilities and the amounts herein set forth.

The Common Seal of _____
was hereto affixed in the presence of:

SCHEDULE "G"

SUSTAINABILITY

1. Please list any products or services contemplated in the Tender that are toxic or hazardous to the environment or humans and complete the following table in relation thereto.

Item	Description of Toxin/Hazard	Substantiation for Use	Mitigation strategy to reduce the effect of the Toxin/Hazard

2. Please identify the Tenderer's standard practices for disposal of obsolete or expired products or equipment.

Item	Type of Product/Equipment	Disposal Method

3. Please identify the Tenderer's current or proposed solutions to address and reduce carbon emissions.

Item	Carbon Emission Risk	Solution to Reduce Carbon Emissions

SCHEDULE "H"

CERTIFICATE OF INSURANCE

(TO BE COMPLETED IF AWARDED THE CONTRACT)

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE "H" (PART C - FORM OF TENDER)



CERTIFICATE OF INSURANCE
Project Specific Insurance

Schedule H

Section 7 a) – City staff to select the required # of days Written Notice before sending out for completion
Section 2 through 7 – to be completed and executed by the Insurer or its Authorized Representative

1. **THIS CERTIFICATE IS ISSUED TO:** City of Vancouver, 453 W 12th Avenue, Vancouver, BC, V5Y 1V4
and certifies that the insurance policies as listed herein have been issued to the Named Insured(s) and are in full force and effect as of the effective date of the agreement described below.
2. **NAMED INSURED:** [must be the same name as the Permittee/Licensee or Party(ies) to Contract and is/are either an individual(s) or a legally incorporated company(ies)]

MAILING ADDRESS: _____

LOCATION ADDRESS: _____

DESCRIPTION OF PROJECT/CONTRACT: _____

ITT PS20181106 Construction Services for Preloading at the Vancouver Landfill

3. **PROPERTY INSURANCE – ALL RISK COURSE OF CONSTRUCTION (Builder's Risk Form) /INSTALLATION FLOATER**
- Providing All Risk Coverage including Earthquake and Flood up to full replacement cost of the Project/Contract described above
 - Naming the City of Vancouver as an Insured and containing a Loss Payee Clause in favour of the City of Vancouver stating that proceeds of any claims against the Insurer be made payable to City of Vancouver as its interest may appear

INSURER: _____
TYPE OF COVERAGE: _____
POLICY NUMBER: _____
POLICY PERIOD: From _____ to _____

INSURED VALUES: (Full Replacement Cost value of Project)
Limit: \$ _____
Deductible Per Loss: \$ _____

4. **WRAP UP LIABILITY INSURANCE (Occurrence Form)** in the Joint Named Insureds of the Owner, City of Vancouver, Architects, Engineers, Consultants, Sub-consultants, Contractors, and Subcontractors, including their officials, officers, employees, agents, and all participants engaged in or connected with the above Project/Contract, including the following extensions:

- ✓ Personal Injury
- ✓ Cross Liability or Severability of Interest
- ✓ Employees as Additional Insureds
- ✓ Blanket Contractual Liability
- ✓ Broad Form Products and Completed Operations
- ✓ Broad Form Property Damage including Loss of Use
- ✓ Non-Owned Auto Liability

Check Additional Extensions where applicable and included:

- ☐ Work below ground level over 3 metres
- ☐ Excavation, shoring, underpinning, pile driving or caisson
- ☐ Demolition, removal or weakening of support of property
- ☐ Blasting
- ☐ Operation of hoist or attached machinery
- ☐ 24 months Completed Operations
- ☐ 36 months Completed Operations

INSURER: _____ POLICYNUMBER: _____

POLICY PERIOD: From _____ To _____

LIMITS OF LIABILITY: (Bodily Injury and Property Damage Inclusive):

Per Occurrence:\$ _____ Aggregate:\$ _____ Deductible Per Occurrence:\$ _____

5. **AUTOMOBILE LIABILITY INSURANCE** for operation of owned and/or leased vehicles

INSURER: _____
POLICY NUMBER: _____
POLICY PERIOD: From _____ to _____

LIMITS OF LIABILITY:
Combined Single Limit: \$ _____
If vehicles are insured by ICBC, complete and provide Form APV-47.

6. **OTHER INSURANCE** (e.g. Contractors' Equipment) – Please specify Name of Insurer(s), Policy Number, Policy Period, and Limit

7. **POLICY PROVISIONS:**

Where required by the governing contract, agreement, lease, permit or license, it is understood and agreed that:

- a) *SIXTY (60) days written notice of cancellation or material change resulting in reduction of coverage with respect to any of the policies listed herein, either in part or in whole, will be given by the Insurer(s) to the Holder of this Certificate; the exception is cancellation for non-payment of premiums in which case the applicable statutory conditions will apply;*
- b) *All property insurance policies must contain a provision in which the Insurer(s), upon payment of a claim will waive all rights of subrogation against the City of Vancouver, its officials, officers, employees or agents;*
- c) *The insurance policy (policies) listed herein shall be primary with respect to the above described project/contract. Any insurance or self-insurance maintained by the City of Vancouver shall be in excess of this insurance and shall not contribute to it.*

SIGNED BY THE INSURER OR ITS AUTHORIZED REPRESENTATIVE

PRINT NAME OF INSURER OR ITS AUTHORIZED REPRESENTATIVE, ADDRESS AND PHONE NUMBER _____ Dated: _____

SCHEDULE "I"

CERTIFICATE OF EXISTING INSURANCE

(TO BE COMPLETED AND SUBMITTED WITH TENDER)

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE "I" (PART C - FORM OF TENDER)

Schedule I



**CERTIFICATE OF EXISTING INSURANCE
TO BE COMPLETED AND APPENDED TO THE PROPOSAL/TENDER**

Section 2 through 8 – to be completed and executed by the Insurer or its Authorized Representative

1. **THIS CERTIFICATE IS ISSUED TO:** City of Vancouver, 453 W 12th Avenue, Vancouver, BC, V5Y 1V4
and certifies that the insurance policy (policies) as listed herein has/have been issued to the Named Insured and is/are in full force and effect.
2. **NAMED INSURED** (must be the same name as the proponent/bidder and is either an individual or a legally incorporated company)

BUSINESS TRADE NAME or DOING BUSINESS AS

BUSINESS ADDRESS

DESCRIPTION OF OPERATION

PS20181106 Construction Services for Preloading at the Vancouver Landfill

3. **PROPERTY INSURANCE (All Risks Coverage including Earthquake and Flood)**
INSURER _____ Insured Values (Replacement Cost) -
TYPE OF COVERAGE _____ Building and Tenants' Improvements \$ _____
POLICY NUMBER _____ Contents and Equipment \$ _____
POLICY PERIOD From _____ to _____ Deductible Per Loss \$ _____
4. **COMMERCIAL GENERAL LIABILITY INSURANCE (Occurrence Form)**
Including the following extensions: INSURER _____
✓ Personal Injury POLICY NUMBER _____
✓ Property Damage including Loss of Use POLICY PERIOD From _____ to _____
✓ Products and Completed Operations **Limits of Liability (Bodily Injury and Property Damage Inclusive) -**
✓ Cross Liability or Severability of Interest Per Occurrence \$ _____
✓ Employees as Additional Insureds Aggregate \$ _____
✓ Blanket Contractual Liability All Risk Tenants' Legal Liability \$ _____
✓ Non-Owned Auto Liability Deductible Per Occurrence \$ _____
5. **AUTOMOBILE LIABILITY INSURANCE** for operation of owned and/or leased vehicles
INSURER _____ **Limits of Liability -**
POLICY NUMBER _____ Combined Single Limit \$ _____
POLICY PERIOD From _____ to _____ *If vehicles are insured by ICBC, complete and provide Form APV-47.*
6. ☐ **UMBRELLA OR** ☐ **EXCESS LIABILITY INSURANCE** **Limits of Liability (Bodily Injury and Property Damage Inclusive) -**
INSURER _____ Per Occurrence \$ _____
POLICY NUMBER _____ Aggregate \$ _____
POLICY PERIOD From _____ to _____ Self-Insured Retention \$ _____
7. **PROFESSIONAL LIABILITY INSURANCE** **Limits of Liability**
INSURER _____ Per Occurrence/Claim \$ _____
POLICY NUMBER _____ Aggregate \$ _____
POLICY PERIOD From _____ to _____ Deductible Per Occurrence/Claim \$ _____
If the policy is in a "CLAIMS MADE" form, please specify the applicable Retroactive Date: _____
8. **OTHER INSURANCE**
TYPE OF INSURANCE _____ **Limits of Liability**
INSURER _____ Per Occurrence \$ _____
POLICY NUMBER _____ Aggregate \$ _____
POLICY PERIOD From _____ to _____ Deductible Per Loss \$ _____
TYPE OF INSURANCE _____ **Limits of Liability**
INSURER _____ Per Occurrence \$ _____
POLICY NUMBER _____ Aggregate \$ _____
POLICY PERIOD From _____ to _____ Deductible Per Loss \$ _____

SIGNED BY THE INSURER OR ITS AUTHORIZED REPRESENTATIVE

PRINT NAME OF INSURER OR ITS AUTHORIZED REPRESENTATIVE, ADDRESS AND PHONE NUMBER

Dated _____

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE "J" (PART C - FORM OF TENDER)

SCHEDULE "J"

UNDERTAKING OF INSURANCE

To: City of Vancouver

Re: PS20181106 CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL

Dear Sirs:

We, the undersigned have completed, signed and attached the "Certificate of Existing Insurance" enclosed with this undertaking and now also do hereby undertake and agree that if _____ (the "Tenderer") is awarded a Contract, we will insure the Contractor in accordance with the requirements of the Contract, the form of which is included in the Tender Documents and will form part of the Contract Documents.

Dated at _____, British Columbia, this _____ day of _____ 20_____.

By: _____

Title: _____

Full Corporate Name of Insurer:

The "Certificate of Existing Insurance" provided with the ITT should be completed and signed and enclosed with this schedule, both of which are to be signed by the Insurance Company or an authorized broker on behalf of the Insurance Company. A SEPARATE FORM (AND CERTIFICATE OF EXISTING INSURANCE) SHOULD BE SIGNED FOR EACH POLICY IF THE TENDERER HAS MORE THAN ONE INSURER OR BROKER FOR ITS POLICIES.

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE "K" (PART C - FORM OF TENDER)

SCHEDULE "K"
DECLARATION OF SUPPLIER CODE OF CONDUCT COMPLIANCE

Purpose: All proposed suppliers are to complete and submit this form to certify compliance with the supplier performance standards set out in the Supplier Code of Conduct.

The City of Vancouver expects each supplier of goods and services to the City to comply with the supplier performance standards set out in the City's Supplier Code of Conduct (SCC) <http://vancouver.ca/policy_pdf/AF01401P1.pdf>. The SCC defines minimum labour and environmental standards for City suppliers and their subcontractors.

Suppliers are expected to comply with the aforementioned standards upon submitting a tender, proposal, application, expression of interest or quotation to the City, or have a plan in place to comply within a specific period of time. The City reserves the right to determine an appropriate timeframe in which suppliers must come into compliance with these standards. To give effect to these requirements, an authorised signatory of each proposed vendor must complete the following declaration and include this declaration with its submission:

As an authorised signatory of _____(vendor name), I declare that I have reviewed the SCC and to the best of my knowledge, _____(vendor name) and its proposed subcontractors have not been and are not currently in violation of the SCC or convicted of an offence under national and other applicable laws referred to in the SCC, other than as noted in the table below (*include all violations/convictions that have occurred in the past three years as well as plans for corrective action*).

Section of SCC / title of law	Date of violation / conviction	Description of violation / conviction	Regulatory / adjudication body and document file number	Corrective action plan

I understand that a false declaration and/or lack of a corrective action plan may result in no further consideration being given to the submission of _____(vendor name).

Signature: _____

Name and Title: _____

SCHEDULE "L"

CONFLICT OF INTEREST DECLARATION

NO CONFLICT OF INTEREST / NO COLLUSION / NO LOBBYING

Declaration as to no Conflict of Interest in ITT

- (a) The Tenderer confirms and warrants that there is no officer, director, shareholder, partner, employee or contractor of the Tenderer or of any of its proposed subcontractors, or any other person related to the Tenderer's or any proposed subcontractor's organization (a "person having an interest") or any spouse, business associate, friend or relative of a person having an interest who is:
- a. an official or employee of the City; or
 - b. related to or has any business or family relationship with an elected official or employee of the City,
- in each case, such that there could be any conflict of interest or any appearance of conflict of interest in the evaluation or consideration of the Tender by the City, and, in each case, except as set out, in all material detail in the section titled "Disclosure" in this Schedule "L".
- (b) The Tenderer confirms and warrants that there is no person having an interest (as defined above) who is a former official, former employee or former contractor of the City and who has non-public information relevant to the ITT obtained during his or her employment or engagement by the City, except as set out, in all material detail, in the section titled "Disclosure" in this Schedule "L".

Declaration as to No Conflict of Interest Respecting Proposed Supply

The Tenderer confirms and warrants that neither the Tenderer nor any of its proposed subcontractors is currently engaged in supplying (or is proposing to supply) goods or services to a third party such that entering into an agreement with the City in relation to the subject matter of the ITT would create a conflict of interest or the appearance of a conflict of interest between the Tenderer's duties to the City and the Tenderer's or its subcontractors' duties to such third party, except as set out, in all material detail, in the section titled "Disclosure" in this Schedule "L".

Declaration as to No Collusion

The Tenderer confirms and warrants that:

- (a) the Tenderer is not competing within the ITT with any entity with which it is legally or financially associated or affiliated; and
- (b) the Tenderer is not cooperating in any manner in relation to the ITT with any other tenderer responding to the ITT,

in each case, except as set out, in all material detail, in the section titled "Disclosure" in this Schedule "L".

Declaration as to Lobbying

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE "L" (PART C - FORM OF TENDER)

The Tenderer confirms and warrants that:

- (a) neither it nor any officer, director, shareholder, partner, employee or agent of the Tenderer or any of its proposed subcontractors is registered as a lobbyist under any lobbyist legislation in any jurisdiction in Canada or in the United States of America; and
- (b) neither it nor any officer, director, shareholder, partner, employee or agent of the Tenderer or any of its proposed subcontractors has engaged in any form of political or other lobbying whatsoever with respect to the Tender or sought, other than through the submission of the Tender, to influence the outcome of the ITT,

in each case, except as set out, in all material detail, in the section titled "Disclosure" in this Schedule "L".

Disclosure [Add disclosure here.]

(NOTE: The City will evaluate each matter disclosed to determine whether and to what extent the Tenderer can be given consideration in the ITT in light of the particular matter.)

THE TENDERER HAS EXECUTED AND DELIVERED THIS DECLARATION AS AN INTEGRAL PART OF ITS TENDER IN THE MANNER AND SPACE SET OUT BELOW:

Signature of Authorized Signatory for the Tenderer

Date

Name and Title

Signature of Authorized Signatory for the Tenderer

Date

Name and Title

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE "M" (PART C - FORM OF TENDER)

SCHEDULE "M"

LABOUR FORCE & WORKING HOURS

Tenderers should complete the following tables setting out the estimated labour force for manual direct man-hours and manual indirect man-hours required to complete the Work inclusive of sub-contractor employees.

TABLE 1 - ESTIMATED LABOUR FORCE FOR MANUAL DIRECT MAN-HOURS AND MANUAL INDIRECT MAN-HOURS

Classification	Contract or Sub-contract	Number of Labour Force	Period of Employment	
			From Week Number Following Award of Contract	To Week Number Following Award of Contract

TABLE 2 - WORKING HOURS

The Tenderer should complete the following table setting out the intended normal working hours.

	From (AM)	To (PM)	Number of Working Hours (After deduction of breaks)
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Saturday			
Sunday			
Total Number of Working Hours per Week =			

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE "M" (PART C - FORM OF TENDER)

Additional pages may be attached to this page. Each such additional page is to be clearly marked "ITT No. PS20181106, FORM OF TENDER - SCHEDULE M", and is to be signed by the Tenderer.

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE "N" (PART C - FORM OF TENDER)

SCHEDULE "N"

PROPOSED KEY PERSONNEL

The Tenderers should provide details of its key personnel, in the table below, proposed to facilitate and delivery the Work.

TABLE 1 - PROPOSED KEY PERSONNEL

Name	Current Position and Responsibilities (Including the Nature of any Supervisory or Management Responsibilities)	Key Duties Under This Contract	Relevant Qualifications and Training	Length of Service in Current Organisation	Experience in Current or Equivalent Position (Years)

Additional pages may be attached to this page. Each such additional page is to be clearly marked "ITT No. PS20181106, FORM OF TENDER - SCHEDULE N", and is to be signed by the Tenderer.



INVITATION TO TENDER ("ITT") NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL

FORM OF AGREEMENT

between

and

CITY OF VANCOUVER

_____, 20____

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
PART D - FORM OF AGREEMENT

This AGREEMENT (this “Agreement”) is made as of the day of _____.

BETWEEN:

CITY OF VANCOUVER, having an office at
453 West 12th Avenue
Vancouver, British Columbia, V5Y 1V4

(hereinafter referred to as the “Owner” or the “City”)

OF THE FIRST PART

AND:

[NTD: INSERT CONTRACTOR NAME/ADDRESS]

(hereinafter referred to as the “Contractor”)

OF THE SECOND PART

WHEREAS:

- A. The Owner has appointed its employee, Faisal Mirza, (hereinafter referred to as the “Engineer” for the purposes of this Contract) to act as its sole and exclusive agent for purposes of managing and administering the performance of the Work by the Contractor in accordance with the Specifications, Drawings and other Contract Documents; and
- B. The Contractor has agreed with the Owner to perform the Work and to furnish all plant, tools, equipment, labour, Products, material and supervision necessary therefor as hereinafter set forth.

NOW THEREFORE THIS AGREEMENT WITNESSES as follows:

ARTICLE 1 ROLE OF THE ENGINEER

The Owner hereby designates and appoints the Engineer as its sole and exclusive agent for the purpose of, on behalf of the Owner, managing and administering the performance of the Work, as set out in the Contract Documents. Unless otherwise notified in writing by the Owner to the Contractor, the agency of the Engineer shall continue for the entire duration of this Contract including the period of any guarantees or warranties given by or through the Contractor. In the event of the revocation in writing of the agency of the Engineer by the Owner, the Engineer shall have no further authority under this Contract, except as may be specifically designated in writing by the Owner and agreed to in writing by the Engineer, and all references to the Engineer in this Contract shall thereafter be deemed to be references to the Owner or to such other person designated in writing to the Contractor. The Engineer may from time to time delegate to a representative the performance of, or the authority to perform, the duties, responsibilities, rights and obligations of the Owner in respect of which the Engineer has been designated and appointed as its sole and exclusive agent.

ARTICLE 2 WORK

The Contractor will carry out the Work, and will furnish all materials, equipment, products, labour, services and supervision necessary to carry out the Work as specified in and in accordance with the Contract Documents.

All of the Work shall be done, performed or furnished by the Contractor in a proper and workmanlike manner and in accordance with the requirements of the Contract Documents (as hereinafter defined).

ARTICLE 3 CONTRACT DOCUMENTS

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
PART D - FORM OF AGREEMENT

3.1 The following are the Contract Documents, whether or not attached to this Agreement:

- (a) this Agreement and the following schedules:
 - (i) Schedule 1 - General Conditions (the “General Conditions”);
 - (ii) Schedule 2 - Specifications and Drawings (the Specifications and Drawings listed in but not attached to Schedule 2 are incorporated by reference);
 - (iii) Schedule 3 - Schedule of Quantities and Prices;
 - (iv) Schedule 4 - Subcontractors and Suppliers;
 - (v) Schedule 5 - Construction Schedule;
 - (vi) Schedule 6 - Performance and Labour and Material Payments Bonds;
 - (vii) Schedule 7 - Insurance Certificates;
 - (viii) Schedule 8 - Force Account Labour and Equipment Rates;
 - (ix) Schedule 9 - Insurance;
 - (x) Schedule 10 - City Pre-Contract Hazard Assessment Form;
 - (xi) Schedule 11 - Contractor Pre-Contract Hazard Assessment Form;
 - (xii) Schedule 12 - Landfill Site Safety Orientation/Agreement;
 - (xiii) Schedule 13 - Intentionally deleted;
 - (xiv) Schedule 14 - Record Drawing Standards;
 - (xv) Schedule 15 - Submittal Form Template;
 - (xvi) Schedule 16 - Intentionally deleted;
 - (xvii) Schedule 17 - Intentionally deleted;
 - (xviii) Schedule 18 - Intentionally deleted;
 - (xix) Schedule 19 - Contractor Safety Absolutes;
- (b) the Tender (incorporated by reference);
- (c) the Specifications and Drawings (i.e., those not included in Schedule 2 but incorporated herein by reference);
- (d) the Traffic Management Plan (incorporated by reference);
- (e) the Health and Safety Plan (incorporated by reference); and
- (f) the Safety Program (incorporated by reference).

3.2 The Contract Documents are complementary and what is called for by any one shall be as binding as if called for by all. The intent and spirit of the Contract Documents is that the Contractor is

required to complete the Work in every detail within the times and for the purposes designated, and that the Contractor shall furnish and do any and everything necessary for such purposes notwithstanding any omission from the Contract Documents.

ARTICLE 4 SCHEDULE OF WORK

- 4.1 The Contractor will commence the Work as directed in writing by the Owner.
- 4.2 The Contractor will perform the Work diligently and in accordance with the Construction Schedule. Subject to possible adjustment pursuant to the Contract, the Contractor will achieve:
- (i) Substantial Performance on or before Friday, August 16, 2019 or as specified by the Engineer; and
 - (ii) Total Performance on or before Friday, August 30, 2019; and
- 4.3 Time shall be of the essence in this Contract.

ARTICLE 5 PAYMENT

5.1 Contract Price

- (a) The Contract Price (inclusive of all PST, GST and other taxes, duties assessments, charges and fees, all permit and inspection costs, and all WorkSafeBC assessments relating to the Work) to do, perform and supply all the Work in accordance with, and perform all the obligations specified by, the Contract Documents is [\[To Be Determined\]](#)
- (b) The GST payable by the Owner to the Contractor is [\[To Be Determined\]](#). This amount is included in the Contract Price.
- (c) The (i) aforesaid GST and (ii) the PST and all other taxes, duties, assessments, charges and fees included in the Contract Price will be remitted by the Contractor to the applicable authorities as and when the Owner pays the Contract Price to the Contractor or as earlier required by applicable law.
- (d) All amounts are in Canadian dollars.
- (e) The Contract Price may be adjusted only as provided for in the Contract Documents.

5.2 Application for Payment

- (a) During progress of the Work, the Contractor may make application to the Engineer for payment, in the form approved by the Engineer, on or before the last day of every month for any portion of the Work done to the date of the application, provided that the Engineer may at any time require as a condition of payment the submission of documentation set out in GC.60.
- (b) On Substantial Performance being certified in accordance with the procedures set out in Section 2 of GC.60 and the value of the certified deficiencies being agreed upon, the Contractor may make application to the Engineer for payment of the balance of all monies then owing under this Contract to the Contractor, submitting also such documentation as is required by GC 60.

- (c) On correction and completion of all deficiencies in the Work as set out in the Certificate of Substantial Performance, the Contractor shall submit its application to the Engineer for final payment, accompanied by the documentation required by GC 60.

5.3 Payment

- (a) The payment for any Work under this Contract which shall be made to the Contractor by the Owner shall not be construed as an acceptance of any Work as being in accordance with the Contract Documents. The issuance of the Certificate of Total Performance shall constitute a waiver by the Contractor of all claims except those previously made in writing and still unsettled, if any, and specified by the Contractor in its application for final payment pursuant to Section 5.2(c) above.
- (b) Payments to the Contractor will be made by the Owner as follows:
 - (i) On or before the fifth day of the month following an application for payment made by the Contractor, the Engineer will adjust, if necessary, and certify the Contractor's application for payment. Where the Engineer makes any changes to the amount submitted by the Contractor for payment, the Contractor shall be notified in writing within five Working Days and shall be given the opportunity to defend the Contractor's application without delay.
 - (ii) Within thirty calendar days of the date the Owner receives any Engineer-certified application for payment, the Owner will make payment to the Contractor up to the value of the completed Work as certified by the Engineer less any holdback required by the *Builders Lien Act* and less the aggregate of any previous payments, all in accordance with the Contract and with the *Builders Lien Act* (if and to the extent applicable).
 - (iii) The Owner will, in addition to other holdbacks as provided by the Contract Documents, be entitled to deduct and retain from payments otherwise due to the Contractor, a maintenance security holdback in the amount of five percent of the Contract Price (the "Maintenance Security Holdback") to cover the cost of corrections to the work that may be required under GC 51. The balance of the Maintenance Security Holdback not required under GC 51, and remaining at the end of the warranty period, shall be paid without interest to the Contractor.

The Contractor may substitute a letter of credit, in the amount of the Maintenance Security Holdback, in a form and from a financial institution acceptable to the Owner, for the Maintenance Security Holdback.
 - (iv) Where the Engineer has issued a certificate of completion in respect of a subcontract to which the Contractor was a party, and where 55 calendar days have elapsed since the issuance of the certificate without any claims of builders lien being filed which arose under the subcontract, the Owner will release to the Contractor any holdback amount retained pursuant to the *Builders Lien Act* for such subcontract work.
 - (v) After 55 calendar days have elapsed from the date of the Certificate of Substantial Performance issued in accordance with GC.60 and upon the Engineer's satisfaction that no encumbrance, lawful claim or lien exists, the Owner will, within a further ten calendar days, make payment to the Contractor of all monies due under this Contract at the date of Substantial Performance, including the release of all remaining *Builders Lien Act* holdback amounts, if any, but retaining

at least twice the estimated value of the certified deficiencies, and retaining the Maintenance Security Holdback.

- (vi) Upon the issuance of the Certificate of Total Performance, the Owner will make a final payment of all monies owing to the Contractor under the Contract, except for the Maintenance Security Holdback, which shall be released as specified in Section 5.3(b)(iii).

5.4 Interest on Overdue Payments

Where payment is not made in accordance with the payment provisions contained in Section 5.3 above, the overdue amount shall bear interest at the lending rate of the Bank of Montreal for its prime commercial customers and such interest shall be calculated from and after the date upon which such payment was due and shall accrue until the date that payment of the overdue amount together with interest is made. This interest obligation on the Owner shall constitute the sole remedy of the Contractor for late payment.

ARTICLE 6 NOTICES

- 6.1 Unless otherwise specifically provided in the Contract Documents, all notices, instructions, orders or other communications in writing shall be conclusively deemed to have been given to the Contractor if delivered to the Contractor personally (or in the case of a company, to any of its officers or directors personally), or to the Contractor's superintendent or foreman, or delivered by mail to the Contractor at the business address of the Contractor set forth below:

Contractor:

[NTD: Insert Contractor information]

- 6.2 Unless otherwise specifically provided in the Contract Documents all notices, requests, claims or other communications by the Contractor shall be in writing and shall be given by personal delivery or by registered mail addressed to the Owner at the following address:

Owner:

City of Vancouver
453 West 12th Avenue
Vancouver, British Columbia
V5Y 1V4

Attention: [insert],

, each notice, request, claim or other communication that this Agreement requires to be directed to the Engineer shall be in writing and shall be given by the Contractor by personal delivery or by registered mail, addressed to the Engineer at the address set forth below, with a copy to the Owner at the address set forth above.

- 6.3 Any of the said addresses may be changed from time to time by written notice to the other party.
- 6.4 Any such notices, instructions, orders, requests or other communications sent by mail as aforesaid shall be deemed to have been given on the second Working Day following the mailing thereof.

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
PART D - FORM OF AGREEMENT

ARTICLE 7 GENERAL

- 7.1 This Agreement shall inure to the benefit of and be binding upon the respective successors and permitted assigns of the Parties hereto.
- 7.2 Except as expressly set forth in the foregoing Section 7.1 or in Schedule 1, nothing in this Agreement shall be construed to give any rights or benefits to anyone other than the Owner and the Contractor.
- 7.3 This Agreement constitutes the entire agreement between the parties hereto with respect to the subject matter hereof and cancels and supersedes any prior understandings and agreements between the parties hereto with respect thereto. There are no representations, warranties, terms, conditions, undertakings or collateral agreements, express, implied or statutory, between the parties in relation to the subject matter hereof other than as expressly set forth in this Agreement.
- 7.4 No modification of or amendment to this Agreement is valid or binding unless set forth in writing and fully executed by the parties hereto and no waiver of any breach of any term or provision of this Agreement is effective or binding unless made in writing and signed by the party purporting to give such waiver and, unless otherwise provided, is limited to the specific breach waiver.
- 7.5 This Agreement is governed by and must be construed in accordance with the laws of the Province of British Columbia.
- 7.6 This Agreement is subject to the exclusive jurisdiction of the courts in the Province of British Columbia except to the extent necessary to enforce, in another jurisdiction, any judgment of any court in the Province of British Columbia.
- 7.7 The Contractor agrees to do all things and execute all deeds, instruments, transfers or other documents as may be necessary or desirable to give full effect to the provisions of this Agreement and the transactions contemplated by it.
- 7.8 If any term or condition of this Agreement is for any reason held to be illegal, invalid, ineffective, inoperable or otherwise unenforceable, it shall be severed and deemed to be deleted from this Agreement and the validity and enforceability of the remainder of this Agreement shall not be affected or impaired thereby. If any term or condition of this Agreement is found to be illegal, invalid ineffective, inoperable or otherwise unenforceable, but would not be so if some part of it were deleted, the term or condition shall apply with such modifications as may be necessary to make it enforceable.
- 7.9 This Agreement may be executed in any number of counterparts. All counterparts, taken together, constitute one instrument. A party may execute this Agreement by signing any counterpart.
- 7.10 Delivery of an executed signature page to this Agreement by either party by electronic transmission shall be as effective as delivery of a manually executed copy of this Agreement by such party.

IN WITNESS WHEREOF the parties hereto have executed this Agreement on the date first herein above written.

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
PART D - FORM OF AGREEMENT

CITY OF VANCOUVER
by its authorized signatories:

Signature: _____

Name: _____

Title: Category Manager

Signature: _____

Name: _____

Title: Chief Purchasing Official

Signature: _____

Name: _____

Title: General Manager, Engineering Services Department

[INSERT NAME OF CONTRACTOR]
by its authorized signatories:

Signature: _____

Name: _____

Title: _____

Signature: _____

Name: _____

Title: _____

GC.1 DEFINITIONS

Where used in this Agreement, unless otherwise defined:

“Agreement” means the contract or agreement between the City and the Contractor regarding performance of the Work and as set out in the Contract Documents;

“Applicable Laws” means all laws, statutes, bylaws, regulations, ordinances, standards, codes, orders, decrees, restrictions, and rules (including all occupational health and safety requirements) whether federal, provincial, or municipal in origin, having the force of law, existing at common law or enacted by any public authority having jurisdiction in relation to any aspect of the Project in force from time to time during the term of the Agreement;

“Certificate of Insurance” means, subject always to GC.53, a certificate of insurance duly completed by the Contractor’s insurers or insurance brokers, in a form acceptable to the Owner;

“Certificate of Substantial Performance” means, subject always to Section 5.3 of the Agreement and to the warranty under GC.51, the certificate issued by the Engineer indicating that Substantial Performance of the Work has been achieved. Under no circumstances will issuance of the Certificate of Substantial Performance be deemed to mean that the Owner has accepted the Work as being in compliance with the Contract Documents;

“Certificate of Total Performance” means, subject always to section 5.3 of the Agreement and to the warranty under GC.51, a certificate issued by the Engineer accepting the Contractor’s certification that the entire Work of the Contract has been performed by the Contractor to the requirements of the Contract Documents;

“City” or “Owner” means the City of Vancouver, a municipal corporation continued pursuant to the Vancouver Charter, acting in its capacity as the owner and operator of the Landfill, but expressly excludes the City of Vancouver, acting in its regulatory capacity;

“Construction Schedule” has the meaning set out in GC.22;

“Contract” means the contract or agreement between the City and the Contractor regarding performance of the Work and as set out in the Contract Documents;

“Contract Documents” means the documents described as such in Article 3 hereof;

“Contract Price” means the amount stipulated in Article 4 of the Agreement as the price payable to the Contractor for performance of the Work in accordance with the Contract;

“Contract Time” means the time or times during which the Work is to be performed pursuant to the Contract;

“Drawings” means all plans, profiles, drawings, sketches within, and all other graphic and pictorial portions of, the documents prepared for or in connection with the Work embraced under this Contract, which have been approved for use by the Owner or the Engineer, including those listed in Schedule 2 and those contained within the Master Municipal Specifications and Standard Detail Drawings, which are in turn contained within Volume II of the Master Municipal Construction Document, as further described in GC.4;

“Engineer” means the Engineer as defined in the Agreement or his delegate, who may be an employee of the Owner or an independent engineer engaged by the Owner on its behalf;

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“Environmental Legislation” means any laws, statutes, regulations, orders, bylaws, permits or lawful requirements of any governmental authority with respect to environmental protection;

“GST” means the tax payable and imposed pursuant to Part IX of the Excise Tax Act (Canada), as amended or replaced from time to time;

“Invitation to Tender” or “ITT” means the City’s Invitation to Tender PS20181106, Construction Services for Preloading - Vancouver Landfill;

“Health and Safety Plan” means the written site-specific health and Safety plan which the Contractor, pursuant to the ITT, delivered to the Owner after receipt of the Notice of Award, as may be modified from time to time in accordance with the Contract;

“Landfill” means the City of Vancouver Landfill located at 5400 72nd Street, Delta, British Columbia;

“materials” means, depending on the context, either materials, supplies and other things incorporated or to be incorporated into or used in carrying out the Work as required by the Contract Documents or other physical materials;

“Notice of Award” has the meaning set out in the ITT;

“Notice to Proceed” has the meaning set out in the ITT;

“Other Contractors” means any person, firm or corporation employed by or having a contract with the Owner and/or associated parties otherwise than through the Contractor in connection with the Work;

“Plant” means every temporary or accessory means necessary or required to carry on or complete the Work and extra work, in the time and manner herein provided including, without limiting the generality of the foregoing, all tools, fixed and moveable machinery, engines, motor vehicles, trucks, compressors, all temporary structures such as workshops, sheds, storehouses, shoring forms, trestles and hoardings and all other appliances, apparatus or equipment of every sort, kind and description whatsoever;

“Products” means equipment, supplies, materials and other things incorporated or to be incorporated into the Work or used in carrying out the Work as required by the Contract Documents;

“Progress Reports” means written reports prepared by or for the Engineer periodically while the Work is carried out, regarding the progress of the Work, including, without limitation, any deficiencies therein from time to time, any discussions with and instructions to the Contractor, the number of personnel at the Work Site from time to time, materials delivered to the Work Site and all such things and matters the Engineer might consider ought to be so recorded therein;

“PST” means the provincial sales tax payable and imposed pursuant to the *Provincial Sales Tax Act* (British Columbia), as amended or replaced from time to time;

“Specifications” mean the portion of the Contract Documents, wherever located and whenever issued, consisting of the written requirements and standards for Products, systems, workmanship, quality, and the services necessary for the performance of the Work, including those listed in Schedule 2 and those contained within the Master Municipal Specifications and Standard Detail Drawings, which are in turn contained within Volume II of the Master Municipal Construction Document, as further described in GC.4;

“Subcontractor” means the person or persons with whom the Contractor has made an agreement to perform a portion or portions of the Work or to supply Products therefor;

“Substantial Performance” means substantial completion of the Work such that, though not necessarily totally complete, it is ready for use as intended and/or is fully functional as intended as a completed project and the Engineer in writing in accordance with the Contract has certified it as having been substantially performed;

“Tender” means the Contractor’s tender dated _____ submitted in response to the ITT;

“Total Performance” means, as certified in writing by the Engineer in accordance with the Contract, the full completion of all the Work as required under the Contract, including correction of all deficiencies, but excluding any warranty work required during warranty periods under the Contract;

“Traffic Management Plan” has the meaning set out in GC.36;

“WorkSafeBC” means the workers compensation board established and functioning pursuant to the *Workers Compensation Act* (British Columbia) (the “WCA”), as amended, and/or related or successor legislation, and any successors in function thereto;

“WorkSafeBC Regulations” means the WCA, and all regulations thereunder, as amended or re-enacted from time to time;

“Work” means (unless the context requires a different meaning) the total construction and related services required by the Contract Documents, including, without limitation, the supply of all Products required therefor and all work(s) mentioned or referred to in the Contract Documents, including all extra or additional work or materials, matters or things which may be ordered by the Owner or the Engineer as herein provided;

“Work Site” or “Site” means the place where the Work is to be carried out.

“Working Day” means any day other than a Saturday, Sunday or “holiday” as defined in the *Interpretation Act* (British Columbia).

GC.2 INTERPRETATION

In this Contract, the masculine includes the feminine and bodies corporate, and each includes the others. Also, any reference to the singular includes the plural where appropriate.

Drawings and Specifications are intended to be complementary. Should any difference exist between the Drawings and Specifications, or should any errors or inconsistency occur in any or between any of the Drawings and Specifications, the Contractor, before proceeding, shall bring them to the attention of the Engineer. The Engineer shall resolve the error or inconsistency and the Contractor shall proceed with the Work in the manner directed by the Engineer.

The Engineer will furnish from time to time such detail drawings and specifications as the Engineer may consider necessary for the Contractor’s guidance. These detail drawings and specification shall be considered Drawings and Specification, respectively, and shall take precedence over Drawings or Specifications, and shall be considered as explanatory of them and not as indicating changes in the Work or as giving rise to any entitlement to a change in the Contract Price.

On all Drawings, figures take precedence over scaled dimensions. Scaling of dimensions, if done, is done at the Contractor's own risk. Despite the above, in the event of any inconsistency between the Drawings and Specifications or between any other Contract Documents or within any Contract Documents which could be construed as creating an ambiguity regarding the amount of Work involved, the cost or amount of Product to be supplied, the Contract Price being lower or higher, or any other similar discrepancy or inconsistency, the discrepancy or conflict will be resolved as follows:

- (a) the portion of the Contract Documents most favourable to the Owner will be deemed to be correct;
- (b) the more stringent will take precedence over the less stringent;
- (c) the more expensive item will take precedence over the less expensive; and
- (d) if none of the foregoing rules (a), (b) and (c) can be applied by the Engineer, the more specific provision will take precedence over the less specific.

GC.3 PERSONAL EXAMINATION

The Contractor has carefully and thoroughly examined the Work Site prior to entering into this Contract and the Contractor is familiar with conditions at the Work Site. Notwithstanding any other provision hereof, no adjustment to the Contract Price shall be made in relation to conditions at the Work Site that should reasonably have been noted by the Contractor as a result of its examination of the Work Site. The Contractor has examined carefully the Drawings, Specifications and other Contract Documents. The Contractor has satisfied itself as to the character, quality and quantity of work to be performed, as to the materials to be furnished, and as to the requirements of the Drawings, Specifications and other Contract Documents. The Drawings show or describe conditions as they are believed by the Engineer to exist, but it is not to be inferred that all of the conditions as shown thereon are actually existent, nor shall the Owner or any of its officials, employees or agents be liable for any loss sustained by the Contractor as a result of any variance between the conditions as stated in the Drawings or other Contract Documents and the actual conditions revealed during the progress of the Work, or otherwise.

The Contractor agrees that the Contractor has satisfied itself by the Contractor's own investigation and research regarding all conditions, that the Contractor's conclusion to enter into the Contract is based upon such investigation and that the Contractor will make no claim against the Owner or the Engineer because any estimates, tests or representations of any kind affecting the Work made by any officer, employee or agent of the Owner or the Engineer that may prove to be in any respect erroneous. The Contractor assumes the risk of unforeseen conditions and agrees to complete the Work under whatever circumstances may develop. Any information shown or described in the Drawings, Specifications or any other Contract Documents as to the soil or material borings or tests of existing material is not guaranteed, and no claim for extra work or damages will be considered if it is found during construction that the actual soil or material conditions vary from those indicated.

GC.4 MASTER MUNICIPAL SPECIFICATIONS AND STANDARD DETAIL DRAWINGS

The Contract Documents incorporate by reference the "Master Municipal Specifications and Standard Detail Drawings" contained within Volume II of the Master Municipal Construction Document (printing 2000) ("MMCD"), but all of Volume I and the following parts of Volume II of the MMCD are expressly excluded from the Contract Documents: Instructions to Tenderers - Part II. General Conditions (including Schedule 17.5.3 Letter Agreement with Referee, Changes and Extra Work flow chart, and Dispute Resolution Process flow chart).

GC.5 PERFORMANCE BOND

The Contractor shall, if it has not yet done so, immediately upon execution of this Agreement, deliver to the Owner a performance bond in the amount of 50% of the Contract Price, issued by a surety licensed to carry on the business of suretyship in the Province of British Columbia, and in a form acceptable to the Owner for the due and proper performance of the Contract, including the warranty obligations hereunder as required in the Notice of Award. The expense of the bond shall be borne by the Contractor.

GC.6 LABOUR AND MATERIALS PAYMENT BOND

The Contractor, if it has not yet done so, immediately upon execution of this Agreement, shall deliver to the Owner a labour and materials bond in the amount of 50% of the Contract Price, issued by a surety licensed to carry on the business of suretyship in the Province of British Columbia, and in a form acceptable to the Owner for the due and proper payment of the labour and materials used under the Contract as required in the Notice of Award. The expense of the bond shall be borne by the Contractor.

GC.7 WORKSAFE BC COVERAGE AND CONTRACTOR TO BE PRIME CONTRACTOR

1. **Payment of WorkSafeBC Assessments** - The Contractor agrees that it shall at its own expense procure and carry or cause to be procured and carried and paid for, full WorkSafeBC coverage for itself and all workers, employees, servants and others engaged in or upon any work or service which is the subject of this Contract. The Contractor agrees that the Owner has the unfettered right to set off the amount of the unpaid premiums and assessments for such WorkSafeBC coverage against any monies owing by the Owner to the Contractor. The Owner shall have the right to withhold payment under this Contract until the WorkSafeBC premiums, assessments or penalties in respect of work done or service performed in fulfilling this Contract have been paid in full.
2. **Prime Contractor** - If and to the extent that the Work Site or any part thereof is a "multiple employer workplace" within the meaning of Part 3 of the *Workers Compensation Act* (British Columbia) ("WCA"), and unless otherwise specified in the Contract Documents or notified to the contrary by the Engineer, the Contractor shall be the "Prime Contractor" under that part of the WCA notwithstanding that the Owner, the Engineer or an Other Contractor may provide from time to time some of the services normally provided by such "Prime Contractor".

If the Contractor is the "Prime Contractor", the Contractor shall:

- a. *Compliance with Law:* as such comply with all Applicable Laws and all reasonable rules established by the Owner regarding occupational health and safety at the Work Site and of which the Contractor is given timely notice through the Engineer,;
- b. *Safety Programs:* initiate, maintain and supervise all safety programs and measures in connection with the performance of the Work, which programs and measures shall respond fully to the requirements of all Applicable Laws relative to occupational health and safety, all to the satisfaction of the Engineer;
- c. *Site Meetings:* conduct regular safety meetings at the Work Site, no less frequently than required by the Safety Program and provide copies of recorded minutes at the request of the Engineer;
- d. *Safety Equipment:* supply and maintain at the Work Site all safety equipment necessary to protect workers and others from accident or injury; and

- e. *First Aid:* supply and maintain at the Work Site all personnel, equipment and supplies necessary for the provision of appropriate first-aid to any worker or person suffering an accident or injury at or about the Work Site, and establish an emergency procedure for prompt removal of any such person from the Work Site to a hospital, clinic or medical office for further treatment.
- f. *Notice to Project:* prior to commencement of construction, the Contractor will:
 - (1) complete and file a "Notice of Project" with the WorkSafeBC in compliance with Section 20.2 of the WorkSafeBC Rules, and
 - (2) post the Notice of Project at the Work Site, and
 - (3) provide a copy of the Notice of Project to the Owner and confirm in writing that the Notice of Project has been posted at the Work Site.

If, or for so long as the Contractor is not the "Prime Contractor", the Contractor shall:

- a. *Compliance with Law:* comply with all Applicable Laws, and all reasonable rules established by the Owner of which the Contractor is given timely notice through the Engineer, relative to occupational health and safety;
- b. *Compliance with Directions:* comply with all reasonable directions issued by the "Prime Contractor" regarding compliance with Applicable Laws, and rules established by the Owner, relative to occupational health and safety; and
- c. *Site Safety Meetings:* attend all Site safety meetings convened by the "Prime Contractor".

Whether or not the Contractor is the "Prime Contractor", it shall:

- a. *Reporting:* report immediately to the "Prime Contractor" (if not the Contractor) and the Engineer all accidents and injuries of any kind or severity occurring on or about the Work Site and involving employees of the Contractor or any Subcontractor, or any other person of which the Contractor is aware, and arising out of or in connection with the Work;
- b. *Written Confirmation:* confirm in writing each report made under subparagraph (a); and
- c. *City Policy:* respect and adhere to the Owner's safety and training policies relative to the Work Site and the Work.

If the Engineer determines that the Contractor is not in compliance with its obligations as "Prime Contractor", if applicable, the Owner may, but is not obliged to, provide some or all of the services required to discharge those obligations. All costs incurred by the Owner in providing such services shall be paid by the Contractor to the Owner, and may be deducted from any amount then or thereafter becoming due to the Contractor under the Contract.

- 3. Initial Proof of WorkSafeBC Registration/Good Standing - Upon request of the Engineer or the Owner, the Contractor will provide the Owner and the Engineer with the Contractor's or any Subcontractors' WorkSafeBC registration number.
- 4. Subsequent Proof of WorkSafeBC Registration/Good Standing - Concurrently with making any application for payment under this Contract, the Contractor will provide the Owner with written confirmation that the Contractor and all Subcontractors are registered in good standing with WorkSafeBC and that all assessments have been paid.

5. Pre-Contract Hazard Assessment - The Contractor may or may not have received, as part of the Contract Documents, a "Pre-Contract Hazard Assessment" prepared by or for the Owner pursuant to the Owner's statutory obligations under the WorkSafeBC/H&S Regulation (Section 119 of the WCA) as an "owner of a workplace". Despite the Owner's statutory obligations, the Prime Contractor now acknowledges and agrees that the Contractor may not rely on the "Pre-Contract Hazard Assessment" and now agrees to assume by the terms of this Contract full responsibility for carrying out the Owner's obligations under Section 119 of the WCA, including without limitation and by way of example only, conducting all due diligence inquiries of all applicable Owner staff and departments in order to ascertain what, if any, information is known or has been recorded by Owner staff about the Work Site that is necessary to identify and eliminate or control hazards to the health or safety of persons at the Work Site. The Owner now agrees to make all reasonable efforts to assist the Contractor in obtaining timely access to Owner staff and Owner records for this purpose. The Contractor will immediately start conducting such due diligence inquiries and must complete and deliver written confirmation of the completion of such inquiries to the Engineer prior to the Owner being obligated to issue the Notice to Proceed.
6. Special Indemnity Against WorkSafeBC Non-Compliance - The Contractor will indemnify the Owner and hold harmless the Owner from all manner of claims, demands, costs, losses, penalties and proceedings arising out of or in any way related to:
- (a) unpaid WorkSafeBC assessments of the Contractor or any other employer for whom the Contractor is responsible under this Contract;
 - (b) the acts or omissions of any person engaged directly or indirectly by the Contractor in the performance of this Contract, or for whom the Contractor is liable pursuant to the Contractor's obligations as the Prime Contractor, and which acts or omissions are or are alleged by WorkSafeBC to constitute a breach of the WorkSafeBC/H&S Regulation or other failure to observe safety rules, regulations and practices of WorkSafeBC, including any and all fines and penalties levied by WorkSafeBC; or
 - (c) any breach of the Contractor's obligations under this GC.7.

GC.8 LABOUR

The Contractor agrees to employ appropriate tradesmen for the Work. Where the tradesmen are covered by collective agreements, the Contractor shall abide by the conditions of the collective agreements covering such tradesmen. Notwithstanding the foregoing, the Contractor shall pay or cause to be paid to every person employed on the Work not less than the wages or remuneration generally accepted as current at the time.

The Contractor shall endeavour to avoid labour problems and minimize work stoppages, jurisdictional or other labour disputes on the Work Site.

GC.9 COMMENCEMENT AND COMPLETION OF THE WORK

The Contractor shall not commence the Work or procure any material therefor until it has received the Notice to Proceed from the Owner. Forthwith after the receipt of the Notice to Proceed, the Contractor shall at once begin and continuously carry on to completion (subject as herein provided) the Work and shall complete and give full possession thereof to the Owner before the date for Total Performance specified herein, unless a longer period shall be allowed in writing by the Engineer, in which case it shall be carried on to completion and possession given to the Owner within the additional time so allowed. No progress or interim estimate or certificate shall release the Contractor or its surety from any responsibility or shall be taken as evidence of any such release, or as an acceptance of any Work or material, or as a waiver of

any condition herein. The whole Work and every portion and detail thereof shall, at the time of completion, be put and left by the Contractor in good and satisfactory condition, finished in all respects and at the time must be fully up to the requirements of the Drawings and Specifications in every particular aspect; and all surplus and refuse material and rubbish must be removed by the Contractor from the vicinity of the Work; the Work Site must be left by the Contractor in a neat and tidy condition; all damages to adjacent property, including pavements, foot walks, boulevards, sod, trees, shrubs and plants, or other things injured or interfered with by the Contractor, or in any way due to its work, must be made good by the Contractor; all wages must be paid, and every other requirement of the Contract must be complied with by the Contractor. The Contractor shall complete all of the Work in full compliance with all Environmental Legislation. In case of the Contractor's failure to finish the Work properly and fully, and as required, or in case of the Work or any part thereof being assumed by the Owner, as provided in these General Conditions, the Owner may proceed to finish the Work for the Contractor as its agent in this respect and at the Contractor's expense or proceed as provided in GC.62.

GC.10 DELAY IN PROGRESS OF THE WORK

1. Delays

- (a) If the Contractor is delayed in the performance of the Work by an act, omission or wilful default of the Owner, or the Engineer, or anyone employed or engaged by them, contrary to the provisions of the Contract Documents, then the time fixed herein for completion shall be extended for such reasonable time as the Engineer may decide.
- (b) If the Contractor is delayed in the performance of the Work by an order issued by a court or other public authority and provided that such order was not issued as the result of an act or fault of the Contractor or anyone employed or engaged by the Contractor directly or indirectly, then the time fixed for completion herein shall be extended for such reasonable time as the Engineer may decide.
- (c) If the Contractor is delayed in the performance of the Work by labour strikes, fire, or by unforeseeable causes beyond the Contractor's control, then the time fixed for completion herein shall be extended for such reasonable time as the Engineer may decide, but in no case shall the extension of time be less than the time lost as the result of the event causing the delay, unless such shorter extension is agreed to by the Contractor. The Contractor shall not be entitled to payment for any costs, loss, or damages incurred as the result of such delay.
- (d) The Engineer may, from time to time and for such period as the Engineer may deem expedient, suspend in whole or in part, the performance of the Work under the Contract, and the Engineer will order the time herein fixed for the completion of the Work to be extended for a period which is deemed by the Engineer equivalent to the time lost by reason of such suspension.
- (e) No extension shall be made for delay unless written notice of claim is given to the Engineer not later than seven calendar days after the commencement of delay, provided however, that in the case of a continuing cause of delay only one notice of claim shall be necessary.
- (f) In the event that the Work is delayed or suspended in accordance with:
 - (i) Sections 1(a) or (d) of this GC.10, the Contractor shall not be entitled to make any claim by reason of such delay or suspension for any losses, costs of damages except and unless, within seven calendar days of the occurrence of

such delay or suspension the Contractor shall give notice in writing to the Engineer of the basis of its claim. Such claim shall be limited to such unavoidable direct costs (excluding all charges for storage of Products, tools and equipment and indirect, overhead or other like costs) incurred as a result of such delay or suspension, and approved by the Engineer. In the case of a delay as described in Section 1(a) or a suspension pursuant to Section 1(d), a sum equal to five percent of such approved, unavoidable direct costs (in lieu of all profit) shall also be allowed. Despite any other term of this Contract, in no event will the Owner's liability for any delay claim (whether under this GC.10 or otherwise, at law or in equity, in contract or in tort) exceed the lesser of \$500 for each Working Day of delay or two percent of the Contract Price. All unavoidable direct costs claimed by the Contractor must be submitted and substantiated to the Engineer for verification on a weekly basis as incurred, failing which, they shall not be considered nor payable by the Owner. Authorization for any payment of the claim shall only be given in a writing duly signed and issued by the Engineer; and

- (ii) Sections 1(b) or 1(c), the Contractor shall not be entitled to payment for any costs, loss, or damages incurred as the result of such delay and despite any other term of this Contract, the Owner will incur no liability for any such delay claim whether or not such claim is brought at law or in equity, contract or tort, or any other basis.

2. Non-Avoidance

No delay or suspension described in this GC.10 shall vitiate or avoid the Contract, or any part thereof, or any security or obligation for the performance thereof, unless the Owner elects to the contrary.

3. Resumption of Work

At the end of such delay or suspension, or upon the removal of the cause thereof, or upon the Contractor receiving notice from the Engineer requiring the resumption of work, the Contractor shall at once resume the performance of the Work and diligently carry on the same under the direction of the Engineer.

4. Continuance of Work After Time Fixed for Completion

The Contractor shall not construe any direct or inferred permission to continue work after expiry of the time for completion of the Work, as stipulated in the Contract or as amended by the order of the Engineer, as a waiver of damages for non-compliance with the requirement for the completion of the Work by or within such time. The Engineer may provide for the withholding of such amounts from amounts otherwise due to the Contractor as the Engineer deems necessary to satisfy claims by the Engineer, the Owner or Other Contractors caused by such non-compliance with the requirement for the completion of the Work by or within such time.

GC.11 SPECIFICATIONS AND DRAWINGS

The Contractor shall keep in its field office and available to the Engineer a complete set of the Specifications and Drawings, and of any further drawings which may from time to time be supplied or approved by the Engineer. The Contractor shall be supplied with three (3) sets of Specifications.

Wherever standard Specifications are referred to, they shall be the latest edition of those Specifications and they shall be considered to be a part of the Contract.

The Contractor will be supplied with three (3) prints of each of the Drawings and the Contractor must satisfy itself as to the accuracy of the said copies in every detail. Any additional copies desired will be furnished by the Engineer at cost to the Contractor.

The Drawings forming part of the Contract are intended to show the position and extent of the works, the general features of the design and construction, and the dimensions and proportions of all principal parts, but neither they nor the Specifications are guaranteed to show or describe every part or detail of the Work; anything omitted from the Drawings and Specifications, which may fairly be considered to be necessary for the proper execution and completion of the Work, shall be deemed to be required of the Contractor under the Contract.

Anything whatever which may be imperfectly specified or imperfectly shown on the Drawings, must be taken, considered and done as if it were perfectly shown and perfectly specified.

All dimensions on the Drawings, except as noted thereon, are shown in metric units.

The Engineer may from time to time issue further drawings or revised drawings as the Engineer deems necessary and such drawings shall be deemed to form part of the Contract. All sets of Drawings and Specifications shall be kept up to date at all times utilizing the Engineer's revised drawings and other documents issued to the Contractor.

All Drawings, Specifications, model and copies thereof furnished by the Engineer are and shall remain the Engineer's property. Such documents and models are to be used only with respect to the Work, are not to be copied or revised in any manner without the written authorization of the Engineer and are to be returned to the Engineer on request at the completion of the Work.

GC.12 SHOP DRAWINGS

The Contractor shall submit, with such promptness so as to cause no delay in its work, or that of any Other Contractor, one (1) electronic pdf file and one (1) copy of all shop or setting drawings and schedules required for the Work of the Contractor, and the Engineer shall pass upon them with reasonable promptness. The Contractor shall make any corrections required by the Engineer, and file with the Engineer one (1) sepia and one (1) copy.

The Engineer's review of shop drawings or schedules shall not relieve the Contractor from responsibility for any deviation from Drawings and Specifications unless the Contractor has in writing called the Engineer's attention to such deviation at the time of submission, nor shall it relieve the Contractor from the responsibility for errors of any sort in shop drawings or schedules.

GC.13 RECORD PLANS

At the time or before the Contractor applies to the Engineer for a Certificate of Substantial Performance, the Contractor shall deliver to the Engineer, to his or her satisfaction, three (3) complete sets of plans, prepared by a duly qualified professional engineer in accordance with the Record Drawings Standards outlined in Schedule 14, showing the Work as constructed.

GC.14 ENGINEER SOLE JUDGE

Should any discrepancies appear in, or any difference of opinion or misunderstanding arise as to the meaning of, the Contract Documents, or should any difference of opinion or

misunderstanding arise as to any omissions therefrom, or misstatements therein, in any respect, or as to quality or dimensions or sufficiency of materials, Products, Plant or Work, or any part thereof, or as to the due and proper execution of the Work, or as to the measurement of quantity or valuation of any Work executed or to be executed under the Contract or as to any additional work required thereupon, or deductions therefrom, or as to any other questions or matters arising out of the Contract, the same shall be determined by the Engineer and the Engineer's decisions shall be final and binding upon all parties concerned, and from such decisions there shall be no appeal; and the Contractor shall immediately, when ordered by the Engineer, proceed with and execute the Work, or any part thereof, forthwith, according to such decisions, and with such additions to or deductions from the Contract Price as are provided for under the terms of the Contract, without making any claim for any extension of time in completing the Contract or the Work, unless otherwise provided for in a writing signed by the Engineer in compliance herewith.

In all cases of misunderstanding and disputes, oral arrangements will not be considered, and the Contractor must produce written authority in support of its contentions, and shall advance no claim in the absence of such written authority, or use, or attempt to use, any conversation with any person whomsoever against the Engineer or the Owner or in prosecuting any claim against any of them.

GC.15 ENGINEER'S ABSENCE

In the absence of the Engineer, any of the Engineer's assistants, whom the Engineer may designate to supervise the Work, shall have (subject to the instructions of the Engineer) full power to decide as to the manner of conducting and executing the Work in every particular aspect, and the Contractor shall follow the instructions or orders of the person so designated.

GC.16 ACCESS AND ASSISTANCE

The Contractor shall furnish the Engineer and any of the Engineer's assistants at all times with convenient means of access to all parts of the Work, and also with all required assistance, to facilitate thorough examination of the same, and inspection, culling or removal of doubtful or defective material or Products and for any other purpose required in connection with the Work, or in the discharge of their respective duties, for which service no additional allowance will be made.

GC.17 COMMUNICATIONS WITH CONTRACTOR

At all times during the performance of the Work, the Contractor will maintain within the Greater Vancouver area an office equipped with a telephone and staffed at all times on all Working Days between 8:30 a.m. and 4:30 p.m. with a representative of the Contractor authorized to act on its behalf in connection with the Work and the Contract.

Before commencement of construction, the Contractor will provide the Engineer with a list of at least three persons with authority to act on the Contractor's behalf in times of emergency in connection with the Work, at least one of whom will be available at all times 24 hours per day after commencement of the Work until completion thereof.

Any notice or communication to the Contractor pursuant to the Contract will be deemed to be well and sufficiently given, delivered and received by the Contractor if delivered in person to any of its apparent representatives, or if mailed or sent to the Contractor at the address set out in the Agreement, or to its place of business, if that is different from the address given there, or left for the Contractor at any Work site or by fax or e-mail to the Contractor's fax number or email address as set out in the Agreement or in the Contractor's Tender.

In any written or printed notice the Owner gives communicating to the Contractor regarding requirements for the Work or otherwise in connection with the Work or the Contract, the Owner will not be obligated to specify minutely or in detail everything required, or to specify by measurement the exact extent thereof, or the precise place or places where any part of the Work, material or Products may be defective, or where any of the Specifications have not been observed, but a reference in such notice to the clause or clauses bearing upon the matter, or a description of the locality in general terms that is sufficiently clear, in the Engineer's opinion, to indicate where the defects or trouble exists, will be deemed to be ample notice.

GC.18 CONTRACTOR'S SUPERINTENDENT AND EMPLOYEES

The Contractor shall keep on the Work Site, during the progress of the Work, a competent superintendent and any necessary assistants, all satisfactory to the Engineer. The superintendent shall not be changed except with the consent of the Engineer, unless the superintendent proves to be unsatisfactory to the Contractor and ceases to be in its employ. The superintendent shall represent the Contractor in the Contractor's absence and directions given to the superintendent shall be held to be given to the Contractor. The Contractor shall give efficient supervision to the Work, using its best skill and attention.

Should any person employed on the Work Site, or in connection therewith, give any just cause for complaint, the Engineer may require that such person be replaced forthwith, and such person shall not be again employed by the Contractor on the Work Site without the consent, in writing, of the Engineer.

GC.19 INSPECTION OF WORK

The Engineer may appoint inspectors or surveyors to inspect all materials used, Products made and all Work done. Such inspections may extend to any or all parts of the Work and to the preparation or manufacture of the Products to be used whether on Site or elsewhere. Inspectors and surveyors are not authorized to revoke, alter, enlarge or accept any portion of the Work or to issue instructions contrary to the Drawings and Specifications.

GC.20 PROGRESS REPORTS

The Contractor shall ensure that its duly authorized representatives review and consider all Progress Reports, each one as soon as reasonably practicable after creation thereof, but in any event within not more than 1 day thereafter, and at the same time sign or initial the report to acknowledge having read and considered it, and, within not more than 7 calendar days thereafter, the Contractor shall notify the Engineer in writing of any parts of any such report with which the Contractor disagrees and of the basis for such disagreement.

GC.21 WEEKLY MEETINGS

The Contractor shall meet weekly with the Engineer on the Work Site to discuss work done in the previous week, and work proposed to be done in the week just starting, and at other times, as requested by the Engineer during the course of the Work.

GC.22 CONSTRUCTION SCHEDULE

The Contractor shall have furnished, or shall immediately furnish, the Engineer with a complete construction schedule ("Construction Schedule") consistent with the Total Performance date set out in the Contractor's Tender and herein, in addition to the preliminary construction schedule provided in the Contractor's Tender, showing all material dates on which each material component of the Contractor's proposed program of operations will be performed so as to attain Total Performance on the required date. The Construction Schedule

must include the various subdivisions of the Work and the dates of the commencing and finishing of each. The Construction Schedule shall be completed using Microsoft Project or other scheduling software as approved by the Engineer.

The form of the Construction Schedule must be approved by the Engineer. On the last day of each calendar month, an updated copy of the Construction Schedule shall be submitted to the Engineer with particulars indicating the percentage completed of each division of the Work to that date.

The Contractor shall immediately advise the Engineer of any deviations from, or proposed changes to, the Construction Schedule. If, in the opinion of the Engineer, the Construction Schedule as submitted is inadequate to ensure the completion of the Work within the time limited therefor, or is otherwise not in accordance with the Tender, or if the Work is not being adequately or properly prosecuted in any respect, the Engineer, without derogating from the Owner's rights under the Contract, shall have the right to require the Contractor to submit a new Construction Schedule providing for proper and timely completion of the Work, and the Contractor shall be entitled to no claim for extension of time on account of such requirement, and such new Construction Schedule, when accepted by the Engineer, shall be a Contract Document.

GC.23 MAINTENANCE OF SCHEDULE

1. Work Delayed by the Contractor

- (a) The Contractor shall at all times provide a sufficient number of skilled personnel to maintain the progress of the Work and compliance with the Construction Schedule, and, if in the opinion of the Engineer, the Contractor delays the progress of the works of Other Contractors, then the Contractor shall be responsible for all loss and damage, including, without limitation, that of Other Contractors for stand-by time and/or delay occasioned thereby.
- (b) If, in the opinion of the Engineer, the Contractor delays or is about to delay the Work or the progress of any portion of the Work as shown by the Construction Schedule, then upon written notification by the Engineer, the Contractor shall use such additional overtime work or shifts as may be necessary to catch up and/or maintain the progress of the Work and the cost and expenses incurred by use of said overtime work or shifts shall be borne entirely by the Contractor.

2. Work Accelerated by the Engineer

- (a) Should the Engineer be required to expedite the final completion of the Work or the works of Other Contractors, then, provided the Contractor is not in default of any of the provisions of the Contract affecting the Construction Schedule, the Engineer may order the Contractor to work additional shifts for which the Owner will pay:
 - (i) the substantiated extra premium wage incurred by such shift work;
 - (ii) the approved additional wages of supervision; and
 - (iii) an agreed percentage addition for profit for accelerated work.
- (b) Such instructions to the Contractor will only be valid when given in writing by the Engineer. The Contractor shall be responsible for having time sheets covering all such shift work checked and approved daily by the Engineer and claims for reimbursement

of the extra wages will only be accepted when properly supported by such signed time sheets.

3. Work Out-of-Sequence

The Contractor shall at no additional cost perform its Work as to operation or location out-of-sequence as and when directed by the Engineer.

4. Execution of Other Works or Contracts

- (a) The Contractor shall afford all facilities for the execution of any other works which may be undertaken by the Owner or by such parties as may be employed by them, so that such works may be properly and conveniently completed, and the Engineer shall have full authority to make and enforce such regulations as the Engineer may deem necessary for the conduct of the works; and the Contractor shall proceed in such manner and complete in such order such portions of the Work as the Engineer may require, and the Engineer shall be the sole judge as to what facilities are due and proper, and can be afforded without any undue interference with the execution of the Contract.
- (b) The Contractor shall at all times give free access and every reasonable facility to the employees of the Owner and to Other Contractors, to such portion of the works and adjoining land as may be necessary to enable them to execute and maintain works of any description; such accommodation and access being regulated and directed by the Engineer and no inconvenience or alleged inconvenience arising therefrom shall form any ground for claims, losses or damages, compensation or otherwise, by the Contractor against the Owner.

GC.24 EMERGENCIES

The Engineer has the authority in an emergency to stop the progress of the Work whenever in the Engineer's opinion such stoppage may be necessary to ensure the safety of life, or the Work or neighbouring property. This includes authority to make changes in the Work, and to order, assess and award the cost of work extra to the Agreement or otherwise, as may in the Engineer's opinion be necessary. The Engineer shall within two Working Days confirm in writing any such instructions.

GC.25 SUBCONTRACTORS AND SUPPLIERS

The Contractor shall supply complete information to Subcontractors and equipment and material suppliers. The Contractor agrees to bind every Subcontractor by the terms of the Contract Documents as far as applicable to their component of the Work. Where Specifications and Drawings are required to provide complete information on any aspect of the Work, the Contractor shall supply them to the Subcontractor or supplier concerned.

In every subcontract, to the extent the *Builders Lien Act* is applicable, the Contractor shall specify that the Contractor or agent of the Contractor shall be the person responsible for payment certification under that subcontract for the purposes of the *Builders Lien Act* (and not the Owner or Engineer).

GC.26 CONTRACTOR'S PLANT AND UTILITIES

The Contractor shall at its own expense supply, maintain and remove its field office, all other Plant, and whatever electric or telephone facilities the Contractor requires for its Plant for either domestic or construction purposes.

The Contractor must provide and properly maintain, in clean and sanitary condition, suitable and convenient privy or toilet accommodation for the Contractor's employees so that they shall not be a source of inconvenience, complaint or nuisance to the public or to others in the vicinity of the Work Site.

The Contractor shall make all necessary arrangements with the Engineering Department of the Owner for obtaining water from the Owner.

GC.27 PLANT, LABOUR AND MATERIALS

The Contractor at its own expense shall provide all necessary temporary buildings and storage grounds and shall furnish all necessary labour, materials and Plant together with all proper and required facilities for moving and transporting the same, so that the Contract and all Work required to be done under it can and will be carried on in a workmanlike manner, properly, satisfactorily, continuously and expeditiously, to completion, to the Engineer's satisfaction in all respects. Unless otherwise specified, all materials shall be new and both workmanship and materials shall be of good quality.

Should any Plant, equipment, appliance, materials or workmanship which the Engineer may deem to be inferior or unfit for use in or on the Work be brought on the Work Site or used, the same shall be wholly removed therefrom within 24 hours after notification to that effect from the Engineer, and in the case of failure or neglect on the part of the Contractor to remove the same the Engineer may cause the same to be taken away at the Contractor's expense, and deposited, wasted or otherwise disposed of in any locality, place or way the Engineer considers convenient or proper, and the Contractor shall forthwith pay to the Owner on demand, all expenses incurred including storage, if any, or the same may be deducted or collected by the Owner as provided in GC.58.

GC.28 MATERIAL AND EQUIPMENT SUPPLIED BY THE CONTRACTOR

Products and equipment supplied by the Contractor shall be as specified in the Contract Documents. If the Contractor wishes to supply and install Products or use equipment other than as specified, the Contractor shall apply for and must receive written permission from the Engineer before incorporating such items into the Work. Descriptive literature and price schedules covering such alternative Products or equipment shall be supplied to the Engineer if requested.

The Contractor shall furnish for the approval of the Engineer as the Engineer may reasonably require samples of any Products of any kind to be used in the Work and no Products shall be used which are in any way inferior to the approved samples; but it is understood that the approval of any Product shall not subject the Owner or the Engineer to pay for the same or prevent the rejection afterwards of any portion thereof which is found in the Engineer's judgement to be unsound or unfit to be used; nor shall such approval be considered as any waiver of objection to the Work at any subsequent period on account of the unsoundness or imperfection of the Products used.

GC.29 MATERIAL IN IMPERIAL UNITS

Where manufactured Products that are specified in metric units are not available, materials manufactured to Imperial units may be substituted, provided the Contractor can satisfy the Engineer that the substitute materials are at least equivalent to those specified.

GC.30 SUPPLY OF MATERIALS BY THE OWNER

The Contractor's responsibility for materials, equipment and other things supplied by the Owner shall begin upon the Contractor's acceptance at the points of supply to the Work Site. All such materials shall be examined and the Contractor shall advise the Engineer in writing of any defective or damaged material. Any material supplied by the Owner which is damaged after acceptance by the Contractor shall be replaced by the Contractor at his own expense.

Anything supplied by the Owner that is not required for the Work shall remain the property of the Owner. Such things shall be neatly stored at the point of original supply.

GC.31 TEMPORARY STRUCTURES

Temporary structures erected by the Contractor shall remain the Contractor's property and be removed from the Work Site on completion of the Work.

The Contractor shall be responsible for the design, adequacy, safety and efficiency of all falsework, temporary structures and construction processes required in connection with the completion of the Contract. All such designs and plans shall be prepared and sealed by a Professional Engineer licensed to practice in British Columbia and submitted to the Engineer for review and comment, but such review shall not relieve the Contractor of any responsibility. The Contractor shall make good at the Contractor's expense immediately all defects arising from the Contractor's faulty design, equipment or application thereof.

GC.32 WORK AREAS AND CONTRACT LIMITS

The Contractor shall carry out the Work entirely within the Work Site, except that, subject to GC.36, in carrying out the Work the Contractor may use Landfill roads outside of the Work Site for transporting labour, materials and equipment to and from the Work Site and, with the explicit approval of the Engineer and the City, may place its Work Site office at a location outside of the Work Site but within the Landfill as approved by the Engineer and City.

Any rights to access any land or property outside the Landfill boundaries which the Contractor may require during construction shall be acquired by the Contractor at the Contractor's own expense, and the Contractor shall make its own arrangements for the use of such land or property and for the compensation of its owners.

GC.33 TRUCK SAFETY

The Contractor will ensure that all its and all Subcontractor trucks and machines brought to the Landfill will at all times be operated in a safe and courteous manner and in full compliance with Applicable Laws and Landfill requirements regulating their truck use, including all such requirements regarding vehicle speed, routing, engine brake noise, weight and load securement. There will be zero tolerance on overloading trucks and un-tarped loads.

Landfill speed limits are 30 kph in most areas and 15 kph in the area of scales.

The Contractor will ensure that all its and all Subcontractor trucks and other load carrying machines traveling to and from the Work Site in connection with the Work are inspected prior to departure to and from the Work Site to ensure that loads are properly secured and tarped and that there is no loose equipment or debris anywhere on the vehicle and no debris or rocks caught in wheels or tires.

GC.34 STORAGE AREAS

Working and storage areas will be allocated by the Engineer for use by the Contractor. The Contractor shall be responsible for the maintenance and clean-up of the allotted areas.

GC.35 HOURS OF WORK

Without limitation to any other requirements hereunder, the Contractor will ensure that in carrying out the Work it and all Subcontractors will comply at all times with all Applicable Laws which affect the hours during which Work may be carried out, including, without limitation any municipal noise control by-laws.

The Contractor shall keep the Engineer advised on the proposed hours of work so that inspection can be co-ordinated. Work without inspection shall not be permitted.

Except as may otherwise be explicitly permitted pursuant to the Contract, the Work will be carried out only during regular Landfill hours of operation which are 7:00 A.M. and 3:30 P.M. Monday to Friday, excluding "holidays" as defined in the *Interpretation Act* (British Columbia), and except in the event of an emergency or by special arrangement made with the Engineer, City personnel and inspectors will not be available for Work related matters outside these hours. The Engineer will be available for all critical stages in the Work in accordance with notification requirements under the Contract. Any Work requiring any City, Engineer or third-party inspections or supervision under the Contract or Applicable Laws must be performed only in accordance with applicable inspection and/or supervision requirements.

The Contractor shall ensure that the Work is carried out with minimal disruption to others using and/or working at the Landfill and without obstruction to the safe and continuous access to the Work Site and the other areas of the Landfill for City personnel and other persons authorized to access them.

Notwithstanding anything else in the Contract, the City will not be obligated to pay the Contractor overtime wages paid to Contractor or Subcontractor personnel except in accordance with the Contract and/or in circumstances in which the City has provided its explicit prior written approval therefor and which give rise to adjustments to the Contract Price in accordance with the Contract, and, in any event, in no circumstances will the City be obligated to pay the Contractor for any Work related overtime wages in excess of 10 hours per day or 6 days per week.

GC.36 TRAFFIC CONTROL

The Contractor, at its expense, shall provide, erect and maintain barriers, fencing and other prudent safety equipment and measures in relation to the Work related traffic within the Landfill and, if required by the Engineer, shall provide flag-persons, watchpersons, signage and lights as may be prudent for the safety of all persons.

Within ten Working Days of receipt of a Notice of Award, the Contractor shall have submitted (or failing which, shall immediately upon the execution hereof submit) the detailed Traffic Management Plan for the Engineer's approval incorporating all aspects of the preliminary traffic management plan provided by the Contractor with its Tender as well as all further details then available to the Contractor or reasonably requested by the Engineer in preparation for commencement of the Work following receipt of a Notice to Proceed.

The Contractor shall, from the date of commencement to the date of completion of the Work, assume responsibility for the barricading and signing of hazards resulting therefrom or any

other obstruction or impediment to pedestrian or vehicular traffic, be these works in progress prior to or subsequent to the above mentioned date of commencement.

Unless ordered otherwise by the Engineer, the Contractor shall inspect its barricades and warning signs around the Work Site at least once per day.

If at any time any Work is carried out at night, the Contractor must supply, at the Contractor's expense, a sufficient number of electric or other approved lights to enable it to be done in an efficient and satisfactory manner, and the Engineer shall have the right to order additional lights at the Contractor's expense if, in the Engineer's opinion, they are or may be required. Traffic control personnel will also be supplied as needed.

At no time are the main haul roads for the Landfill to be completely closed to traffic except outside of normal operating hours and only with express approval from the Engineer. The Contractor shall have no cause for claim against the City whatsoever with respect to delays or other interruption of the Work due to this requirement.

The Contractor will not use the Work Site for the parking of its employee or other vehicles, except for those actively and reasonably required for the performance of the Work. Vehicle traffic within the Work Site must be limited to Work purposes, such as paving, staging and delivery and in full compliance with WorkSafeBC requirements and guidelines.

GC.37 PUBLIC CONVENIENCE

In carrying out the Work, or any portion thereof, the convenience of the public must always be specially considered and provided for by the Contractor, who must not obstruct any street, thoroughfare or sidewalk longer or to any greater extent than is absolutely necessary in the Engineer's opinion. The Contractor shall not deposit any material upon any street, sidewalk, boulevard, grass plot, or other City or public property, without the Engineer's permission; nor shall the Contractor allow the same to remain thereon longer than necessary but must remove all rubbish and other material, clean and thoroughly restore all such places to as good and as tidy a condition as the Contractor found them, as speedily as possible, from time to time as the Work progresses, or as directed. Unless material and rubbish are removed within four days after the completion of the Work, without previous notice to the Contractor the Engineer will proceed to do whatever is necessary to restore such places to as good and as tidy a condition as before the commencement of the Work and charge the cost thereof against the Contractor. Where the Contractor obstructs more of any street, roadway or place than is ordered or sanctioned by the Engineer in writing, then the Engineer may cause such obstructions to be removed at the expense of the Contractor.

GC.38 [INTENTIONALLY DELETED]

GC.39 PROTECTION OF WORK AND PROPERTY

The Contractor shall at all times take maintain adequate protection for the Work from damage and shall protect the Owner's property from all injury arising in connection with the Contract. The Contractor shall make good any such damage or injury. The Contractor shall protect adequately adjacent property as required by law and the Contract.

GC.40 FIRE, SECURITY AND SAFETY REGULATIONS

1. Fire and Security

The Contractor shall comply, and the Contractor shall enforce compliance by all its agents, employees, Subcontractors and suppliers, with any and all fire regulations which have been or

may be established from time to time by the Engineer and anybody having jurisdiction over such matters.

All security regulations which have or may be promulgated by the Engineer or other authorized representatives of the Owner shall be complied with. Watchmen for the Work Site may be provided by the Owner at the Owner's discretion. However, neither the Owner nor the Engineer will be responsible for any loss or damage to the property of the Contractor whether or not watchmen are provided by the Engineer. The Contractor will furnish such security as the Contractor feels necessary for the protection of the Contractor's equipment and Products stored or used on Site.

2. Loss Control

The Contractor will establish a "Loss Control Program," satisfactory to the Owner to meet WorkSafeBC and other requirements.

3. Safety

When required by WorkSafeBC Regulations, first aid facilities, including an attendant, shall be provided on the Work Site at all times during working hours by the Contractor. Such facilities will be completely equipped in accordance with the requirements of WorkSafeBC.

The Contractor shall be fully responsible for taking all necessary precautions for the safety of the Contractor's workers on the Work Site or of complying with all applicable safety laws and regulations, including regulations pursuant to the *Workers' Compensation Act*, to prevent accidents or injury to persons on, about or adjacent to the Work Site.

The Contractor shall provide all safeguards required directly for or as a result of the Work as referred to in GC.39 - Protection of Work and Property and in the scope of Work described in the Contract Documents.

GC.41 OVERLOADING

No part of the Work Site shall be loaded with a load greater than it is calculated to bear safely. Should any damage or accident occur through the violation of this requirement, the Owner will hold the Contractor solely answerable and liable.

GC.42 DRAINAGE

The Contractor shall keep all portions of the Work well, properly and efficiently drained until completion, and the Contractor will be held responsible for all damage which may be caused or result from water backing up or flowing over, through, from or along any part of the Work, or which any of the Contractor's operations may cause to flow elsewhere.

GC.43 CLEANING UP

The Contractor shall at all times keep the Work Site free from accumulations of waste material or rubbish caused by its employees or work, and at the completion of the Work, it shall remove all its rubbish from and about the Work Site and all its tools, scaffolding and surplus materials, and shall leave the Work Site "broom clean" or the equivalent, unless more exactly specified. In case of dispute, the Engineer may remove the rubbish and charge the cost to the Contractor as the Engineer shall determine to be just.

GC.44 SAFEGUARDING EXISTING PROPERTY

Existing property, buildings, fences or other improvements of any kind shall be protected by the Contractor during the life of the Contract. The Contractor shall make good to the satisfaction of the Engineer any damage done to the existing property, buildings, fences or other improvements. This applies to areas of private property incorporated in the Work area.

Where removal of existing improvements such as pavement, fences, structures, sewers and ducts is necessary during the course of the Work, the same shall be re-established by the Contractor to the satisfaction of the Engineer. The cost of protection and rehabilitation shall be borne by the Contractor.

GC.45 EXISTING UTILITIES

The Contractor will be responsible for the care of all public utilities and in the event of any of these requiring to be removed, raised or lowered permanently, this will be done either by the Owner or by the utility company interested and at the expense of the Owner. If temporary alteration of location is required for purposes of the construction, such work shall be done by the Owner or by the utility company interested at the expense of the Contractor. The Contractor, however, will be held responsible for, and will have to bear the cost due to any damage done to utility services through its operations.

Reasonable notice must be given to the Engineer of any change required in utility services.

Existing utilities may or may not be shown on the Drawings. These, however, are shown for convenience only and the Owner assumes no responsibility for improper locations, or failure to show utility locations on the construction plans. The Contractor shall prove its locations by obtaining relevant City of Vancouver plans and uncovering the utilities on Site at no extra cost to the Owner.

The Contractor shall provide adequate barricades and lighting around and adjacent to any open excavation or potentially dangerous location or other locations designated by the Engineer.

The Contractor shall at all times ensure that the fire hydrants are not obstructed.

GC.46 DUST, ODOUR, AND LITTER CONTROL

The Contractor shall at all times, by way of water sprinkling or by other methods approved by the Engineer, control within the Landfill any dust and flying debris caused by its Work related activities. Without limitation to the foregoing, the Contractor shall at all times while carrying out Work related excavations within the Work Site take reasonable steps to minimize and control dust, odour and uncontrolled spread of Landfill waste. In this respect, the Contractor will:

- in order to limit foul odours caused by excavations, keep to a minimum the amount of exposed open trench or excavation activities;
- before the end of each Work day remove or otherwise handle and deal with all excavated waste materials in accordance with all legal and Contractual requirements and, if for any reason that is not reasonably possible on any particular Work day ensure that all such waste is covered or otherwise left as required by the Engineer;
- take necessary measures to control litter from such excavations; and
- treat all excavated materials containing asbestos as directed in the Specifications and in accordance with the Health and Safety Plan.

GC.47 ALTERATIONS, EXTRAS, DEDUCTIONS & CLAIMS

- (a) The Owner without invalidating the Contract shall have the right to make or order any alterations and changes to the Work, such as it may deem advisable, at any time before or during the prosecution of the Work, in any line, grade, Drawings, Specifications or detail thereof, or to increase or decrease the dimensions, quantity of material or work, or to alter the situation or level, or to vary the form or dimensions of any part of the Work, or to vary in any other way the Work; or to order any additional or extra work to be done or additional or extra materials to be furnished; and the Contractor shall, in pursuance of the Engineer's written orders to that effect, proceed with, carry out and execute the Work as directed, and shall supply such additional materials and do such additional or extra work in pursuance of such orders without being entitled to any extension of time for completion, or any additional payment on account thereof, except only as herein provided.
- (b) In each and every case where additional or extra work or material of any kind is ordered to be done or supplied, or where the Contractor does or supplies, or contemplates doing or supplying, any work or material the Contractor shall notify the Engineer in writing and shall state in its notification clearly and fully what the circumstances are, and the additional sum or compensation it intends to demand therefor, otherwise it shall have no claim in respect thereof. The Owner shall make such additional payments as the Engineer determines are reasonable and appropriate, provided that:
- (c) the Engineer shall follow any unit or lump sum prices contained in the Schedule of Quantities and Prices (Schedule 3) applicable to such work, labour or material, and if, and to the extent that, in the opinion of the Engineer only some or none of the unit or lump sum prices aforesaid apply, the hourly rates set out in the Schedule of Force Account Labour and Equipment Rates (Schedule 8) (to the extent they are applicable);
- (d) any unit or lump sum prices contained in the Schedule of Quantities and Prices (Schedule 3) shall be deemed to include all amounts on account of overhead, profit, administrative, and any other indirect expenses or allowances; and
- (e) any compensation to the Contractor that is valued on a basis other than a unit or lump sum price contained in the Schedule of Quantities and Prices (Schedule 3) is consistent with the following:
 - (i) The Contractor will receive combined overhead and profit equal to ten percent (10%) of the direct unavoidable costs incurred by the Contractor's use of his own forces;
 - (ii) The Contractor will receive five percent (5%) combined overhead and profit on the amounts paid by the Contractor to any Subcontractor as a direct result of the additional or extra work or material; and
 - (iii) Subcontractors will receive combined overhead and profit of ten percent (10%) on account of the direct unavoidable costs incurred by the Subcontractor as direct result of the additional or extra work or material.
- (f) If any work, labour or material is not required to be performed or supplied, then the Owner may deduct from the Contract Price the value of such work, labour or material not required to be performed or supplied which shall be determined by:

- (i) using the unit or lump sum prices contained in the Schedule of Quantities and Prices (Schedule 3) applicable to such work, labour or material; or
 - (ii) if, and to the extent that, in the opinion of the Engineer some or none of the unit or lump sum prices aforesaid apply, then using the hourly rates set out in the Schedule of Force Account Labour and Equipment Rates (Schedule 8); or
 - (iii) such fixed sum as agreed upon between the Contractor and the Owner.
- (g) All claims of every nature which the Contractor may have in respect of the Contract or Work done thereunder, are to be summarized and submitted by it (in duplicate) to the Engineer within one month of the completion of same, and the Contractor shall make no claim of any nature afterwards; and no claim not then made or not then allowed by the Owner shall be sustainable, and the Owner shall be in no way disentitled to determine any and all questions concerning said claims, and no action or suit shall be commenced by either party to the Contract until after the Certificate of Total Performance shall have been signed by the Engineer and then only for the amount appearing therein to be due to the Contractor.

GC.48 ERRORS BY CONTRACTOR

Changes, errors or mistakes made by the Contractor or the Contractor's Subcontractors, workmen or employees, and all settlements, washouts and defects, shall be rectified by the Contractor at its expense.

GC.49 TESTING OF MATERIALS

Except where otherwise specified, testing of materials will be carried out by the Contractor and paid for by the Contractor.

GC.50 DEFECTIVE WORK

All defective work must be forthwith made good by the Contractor at its own expense to the Engineer's or Owner's satisfaction, as the case may be.

GC.51 WARRANTY

The Contractor shall perform the Work in a proper and workmanlike manner and in accordance with the requirements of the Contract Documents and guarantee the Work against any defects arising from faulty installation, material or workmanship during the period of 12 months from the date of issuance of the Certificate of Substantial Performance and make good in a permanent manner satisfactory to the Owner any defects arising from any of these causes. Where the Contract Documents provide for a warranty of greater scope or duration than set out in this General Condition, the broader and longer warranty provisions will apply.

Whether the Contractor should replace defective Products or Work, or repair the same, shall be determined by the Engineer. Should the Contractor fail to make good defects within three Working Days after being notified by the Owner to do so, the Owner at its option may do so and all costs, charges and expenses so incurred may be deducted or collected by the Owner as provided in GC.58 - Money Due to Owner; provided that the Owner shall first deduct such amounts from the Maintenance Security Holdback. If the Owner assesses the defects to be dangerous or determines that an emergency situation exists, the Owner, at the Owner's discretion will effect repairs immediately and all costs, charges and expenses so incurred may be deducted or collected by the Owner as provided in GC.58 - Money Due to Owner; provided that the Owner shall first deduct such amounts from the Maintenance Security Holdback. The

decision of the Owner shall be final as to the necessity of repairs or of any work done or required to be done under the provisions of the Contract and for the amounts expended thereunder. If in the opinion of the Engineer, it is in the Owner's best interests (taking into account effects on the Owner's overall schedule, the difference in value between the Work as performed and that called for by the Contract Documents, and other relevant factors) not to correct defective Work or Work not provided in the Contract Documents, the Engineer will assess the amount which should be deducted from the amount otherwise due to the Contractor and will assess the length of time by which the obligations should be extended in order to put the Owner in as close a position financially and in terms of the useful life of the Work as would have been the case had the Contractor performed the Work as called for by the Contract Documents. For further certainty, the Engineer may extend the warranty period in appropriate circumstances to a minimum of twice the warranty period originally provided for under the Contract Documents, subject always to the above parameters.

GC.52 CONTRACTOR'S LIABILITY

The Contractor shall be liable for any and all losses, damages, or claims for damages, for injuries or accident to persons or property done or caused by the Contractor, the Contractor's Subcontractors or employees, or resulting from the prosecution of the Work or any of its operations, or caused by reason of the existence or location or condition of the Work, or of any materials, Products or Plant used therein or thereon, or which may happen by reason thereof, or arising from any failure, neglect or omission on the Contractor's part, or on the part of the Contractor's Subcontractors or employees, to do or perform any or all of the several acts or things required to be done by the Contractor or them under and by the Contract, and the Contractor covenants and agrees to indemnify and save harmless at all times the Owner against all such damages and claims for damages whatsoever arising out of or in connection therewith, and in the event of any such action being brought by any person against the Owner, either directly or indirectly, or by reason of the execution of the Contract, the Owner may enforce payment by the Contractor of all such loss, costs, damages and expenses as a debt due to the Owner.

In the case of the Contractor's failure, neglect or omission to observe and perform faithfully and strictly all the provisions of the Contract, the Owner may either with or without notice (except where in this Contract notice is specially provided for, and then upon giving the notice therein provided for), take such steps, procure such material, equipment, trucks, and men, and do such work or things as it may deem advisable towards carrying out and enforcing the same, and any and all expenses so incurred may be deducted or collected by the Owner under the provisions of GC.58, or from the Maintenance Security Holdback.

Any such action taken by the Owner under this General Condition as it is herein empowered to take shall not in any way relieve the Contractor or its sureties from any liability under the Contract.

GC.53 INSURANCE BY THE CONTRACTOR

- (a) The Contractor shall obtain and maintain throughout the term of the Contract and the prosecution of the Work, all of the insurance policies required by Schedule 9.
- (b) All insurance coverage described in Schedule 9 shall be issued by an insurance carrier or agent acceptable to the Owner and licensed to conduct business in the Province of British Columbia.
- (c) Upon request of the Engineer or the Owner, the Contractor shall be required to deliver a Certificate of Insurance, and where required by the Owner's Director of Risk

Management, certified copies of all policies and endorsements, evidencing the placement and endorsement of insurance in accordance with this GC 53.

- (d) Contractors and their Subcontractors shall be required to furnish evidence of the renewal of policies described in this General Condition by renewal certificate, endorsement or certified copy to be received by the Owner at least 15 calendar days prior to the expiry date of the policy.
- (e) If the Contractor fails to obtain and maintain insurance as required hereunder, or if the Owner does not approve any insurance policy or policies submitted to the Owner and the Contractor thereafter does not meet the requirements of the Owner as to terms and conditions of the insurance policy, the Owner shall have the right to place and maintain such insurance in the name of the Contractor. The cost thereof shall be payable by the Contractor to the Owner on demand, and the Owner may deduct the cost thereof from any monies which are due or may become due to the Contractor. If coverage should lapse, all work by the Contractor shall be stopped until satisfactory evidence of renewal is produced.
- (f) Each policy described in Schedule 9 shall be required to be endorsed to provide the following notice for policy changes and cancellations to the Owner: "It is understood and agreed that this policy will not be cancelled, reduced, materially altered or changed without the insurer giving at least 30 calendar days' prior written notice by registered mail to the City of Vancouver."
- (g) In addition to the requirements of Schedule 9, each Contractor and each of its Subcontractors shall provide at its own cost any additional insurance which it is required by law to provide or which it considers necessary.
- (h) All deductibles shall be for the account of and be paid by the Contractor upon demand by the Owner. The Owner shall have the right to deduct amounts for which the Contractor is responsible under this GC 53 from any monies which are due or may become due to the Contractor.

GC.54 WORKSAFEBC ASSESSMENTS

Prior to execution of the Agreement and prior to commencing the Work under the Contract, the Contractor shall provide a letter from the WorkSafeBC confirming the Contractor's registration and that all assessments have been paid to the date thereof. The Contractor shall require that the Contractor's Subcontractors maintain such coverage and pay such assessments as will protect them, the Owner and the Engineer from claims under the *Workers' Compensation Act* (British Columbia), as amended from time to time and regulations pursuant thereto.

GC.55 CLAIMS FOR WAGES

The Owner may settle any claim for damages, and pay all wages overdue or the price of any materials or the amount due and payable by the Contractor to any Subcontractor, for which payment is in arrears, and the amount thereof shall be debt due by the Contractor to the Owner, as and for money paid by them for the contractor and shall be deducted or collected by them as provided in GC.58 - Money Due to Owner, but the Owner does not assume any liability in this respect; nor shall the persons to whom such wages or payments are paid become, by such payments, the employees or servants of the Owner or third party beneficiaries of this Contract.

GC.56 LIENS

The Contractor hereby agrees to make payment and take all other steps which may be necessary to insure that all Contract monies, the Work Site and the Work, and every part thereof, shall be and remain at all times free from and not liable to any lien or charge at law or in equity, or to any claim of liability under the *Builders Lien Act*, or to any attachment for debt, garnishee process or otherwise, and the Contractor and its sureties, as well as its respective executors, administrators, successors and assigns, shall fully indemnify and save harmless the Owner and all its officers, servants and employees from any and all such liability, and shall, on demand, immediately cause any such lien, charge, claim or attachment to be removed or released from the records of any Land Title Office or court in which the same may appear.

Notwithstanding anything to the contrary contained in the Contract Documents, the Owners shall not be obliged to pay any monies to the Contractor if and for so long as any liens exist against the Work or the Work Site.

GC.57 PATENT INFRINGEMENT

The Contractor shall fully indemnify the Owner against and from all suits or actions arising from the claim of any person or persons who are or claim to be patentees of any process used in connection with the Work or of any material, Products, Plant, machinery, tool or appliance used therein or thereon, or in any way therewith.

GC.58 MONEY DUE TO OWNER

All money payable to the Owner by the Contractor may be retained out of any money then due, or which may become due from them to the Contractor under this or any other contract with the Owner, or otherwise howsoever, or may be recovered from the Contractor and its sureties, or any of either of them, in any Court of competent jurisdiction, as a debt due to them; and the Engineer shall have full power to withhold any estimate or certificate, if circumstances arise which may indicate to him the advisability of so doing, until the Engineer is satisfied that the Work and material so far done or furnished are in accordance with the Contract and that the Contractor is otherwise entitled thereto, though the sum to be retained may be unascertained.

GC.59 ASSIGNMENT

The Contractor shall not, without the consent in writing of the Owner first had and obtained, assign or transfer any sum or sums, or any part thereof, due or to become due to the Contractor under the Contract, or assign, transfer or sublet any portion of the Contract or of the Work but must carry out the Work with its own men or subcontract under the Contractor's supervision. This Section however does not apply to the furnishing of material for the different parts of the Work, for which material, however, the Contractor will be held strictly responsible, and no excuse for the quality of the material or for the non-delivery in good time by any Subcontractor, as affecting the progress of the Work, will be entertained, nor will the Owner's consent to the assigning, transferring or subletting of any portion of the Work relieve the Contractor from any of its obligations or liabilities under the Contract. No assignment, transfer or subletting hereinbefore mentioned, except if the same is made in accordance herewith, shall be in any manner valid or binding on the Owner.

GC.60 CERTIFICATES AND PAYMENTS

1. Payment Certifier

The Engineer shall be the “payment certifier” and the person responsible for payment certification under the Contract for the purposes of the *Builders Lien Act*, if and to the extent applicable, and shall otherwise be responsible for certifying payments in accordance herewith. The Engineer will not be the “payment certifier” under any subcontract.

2. Certificate for Substantial Performance

- (a) When in the Contractor, in its opinion, has achieved Substantially Performance of the Work, the Contractor shall notify the Engineer forthwith in writing thereof after which the Engineer in consultation with the Engineer shall attempt to identify any deficiencies in the Work and shall provide the Contractor with a list and the Contractor shall forthwith do all things necessary to correct such deficiencies.
- (b) When all such deficiencies in the Work have been rectified to the Engineer’s satisfaction, the Engineer shall recommend that the Work is ready for an inspection as described below herein to determine whether Substantial Performance has been achieved, and after completion of such official inspection, the Contractor may request in writing the issuance of a Certificate of Substantial Performance.
- (c) The Contractor shall include with its request for issuance of a Certificate of Substantial Performance, to the Engineer’s satisfaction:
 - (i) the “as constructed record plans” of the Work required by GC.13 - Record Plans;
 - (ii) documentation showing compliance with WorkSafeBC requirements; and
 - (iii) a sworn declaration in a form acceptable to the Engineer that all amounts relating to the Work, due and owing as of the end of the month covered by Section 5.3 of the Form of Agreement to third parties including all Subcontractors and suppliers, have been paid.
- (d) In preparation for the issuance of a Certificate of Substantial Performance, the Owner, the Engineer and the Contractor shall inspect the Work and any remaining deficiencies shall be detailed and included in the Certificate of Substantial Performance when issued.
- (e) Upon issuance of the Certificate of Substantial Performance the Engineer shall set a reasonable date by which the Contractor is to achieve Total Performance.
- (f) For the purposes of the *Builders Lien Act* (to the extent applicable), the Certificate of Substantial Performance shall serve as the Contract’s certificate of completion within the meaning of that statute, and the date of Substantial Performance as stated in the Certificate of Substantial Performance shall be deemed to be the date of the Certificate’s issuance.

3. Certificate of Total Performance

Upon the provision of satisfactory evidence that all deficiencies in the Work have been rectified, the Owner and the Engineer will then inspect the Work to verify such rectification, and, upon being satisfied that such deficiencies have been rectified and upon rectification of

all claims and receipt of all statutory declarations as specified in Section 4(b) of GC.60 to the reasonable satisfaction of the Engineer, the Engineer will issue the Certificate of Total Performance.

4. Statutory Declarations

The Contractor shall submit with each of the Contractor's applications for payment such statutory declarations as may be required herein, which shall be sworn in duplicate by the Contractor, or by such person on behalf of the Contractor as the Engineer may approve.

- (a) Prior to payment and as condition to any payment, the Engineer may at any time require the Contractor to file with the Engineer a statutory declaration showing that all wages for the various classes of labour, the hire of trucks, equipment, etc., employed in or about the Work Site, all Products or other things supplied for use in or upon the Work and amounts due to Subcontractors and suppliers have been paid and satisfied and that there is no encumbrance, lawful claim or lien accruing for labour or services in connection with the Work.

Should any amounts be due and unpaid for wages, equipment, hire, Products and Subcontractors or suppliers as above listed or any encumbrance, lawful claim or lien accrue, the amounts shall be listed on a duly attested statement, in duplicate, and attached to the statutory declaration referred to above.

The Engineer may at any time, if the Engineer deems it advisable, require from the Contractor a statement showing the rates of wages paid by the Contractor for the various classes of labour, the rates of hire of trucks and equipment employed and the prices and quantities of any Products supplied for use in or upon the Work and may also require the statement to show in detail the names of unpaid employees, the rates of wages and amounts due to each, and the names of creditors, quantities, prices and amounts due to each. Such statement shall be duly attested in duplicate as above and be a condition precedent to the right of the Contractor to receive payment.

- (b) Prior to final payment and as a condition to issuance by the Engineer of a Certificate of Total Performance, the Contractor shall file with the Engineer a statutory declaration showing that all Work in respect of the Contract has been completed; all accounts, detailed in the first sentence of Section 4(a) of this General Condition have been paid and satisfied and there is no encumbrance, lawful claim or lien accruing for labour, products or services in connection with the Work; and payments already received and now due under the final payment application are accepted by the Contractor as full compensation for everything furnished and done by the Contractor under the Contract.

5. Other Documentation

The Engineer may as a further condition to any payment, at any time, require the Contractor to furnish such or other detailed information as may be necessary to establish to the Engineer's satisfaction the compliance by the Contractor with the conditions of the Contract.

6. Books Open for Inspection

The Contractor's payrolls, time-books, books of account, invoices, receipt and statements relating to its Work under the Contract shall be at all times open for inspection and extract by the Engineer and the Owner and any authorized representative of them.

GC.61 TERMINATION OF CONTRACT WITHOUT DEFAULT OF CONTRACTOR

The Engineer may, as agent for and on behalf of the Owner, at the Engineer's discretion terminate the Contract at any time upon written notice to the Contractor notwithstanding the fact that the Contractor may not then be in default, in which event the Owner shall be liable to the Contractor only for a reasonable amount for Work done and materials delivered at or to the Work Site up to the date of the termination.

Upon payment of the aggregate of the aforesaid sums, the Owner, the Engineer and the Contractor shall be released from their liabilities or obligations under the Contract save and except that the liabilities and obligations of the Contractor shall continue with respect to deficiencies and warranties in the portion of the Work completed prior to termination.

GC.62 TERMINATION OF CONTRACT FOR CONTRACTOR'S DEFAULT

The Engineer as agent for and on behalf of the Owner, without prejudice to any other right, may elect to terminate the Contract forthwith upon notice to the Contractor if:

- (a) the Contractor fails to comply with the Notice to Proceed;
- (b) the Contractor commits an act of bankruptcy or becomes a bankrupt or makes a general assignment for the benefit of the Contractor's creditors;
- (c) a receiver is appointed for the Contractor's business;
- (d) the Contractor fails, on reasonable notice from the Engineer, to supply enough proper workmen or Products;
- (e) the Contractor does not pay promptly the Contractor's employees, Subcontractors or suppliers;
- (f) the Contractor does not comply with the requirements of the WorkSafeBC Regulations, or otherwise fails to meet the safety requirements of the Contract; or
- (g) the Contractor persistently or substantially breaches any provision of this Contract.

On such termination the Engineer may arrange for the performance of the Work by whatever method the Engineer deems expedient but without undue delay or expense.

The Engineer may take possession of all Products, equipment, tools, structures and appliances belonging to or provided by the Contractor located on the Work Site which the Engineer deems necessary to prosecute the Work which possession the Contractor hereby pledges to the Engineer as agent for and on behalf of the Owner, as security for the performance of the Contract and the Work, provided that upon completion of the Work the Engineer shall return to the Contractor or its legal representative any such chattels so taken in possession in their original condition (ordinary wear and tear excepted) if not incorporated in the Work, without any compensation for use thereof.

In case the Work or any part thereof is assumed from the Contractor, as herein provided, it shall in no way affect the relative obligations of the Owner and the Contractor or its sureties in respect of the Contractor's or their obligation, or in respect of the remainder of the Work (if any), as the Engineer may consider reasonable. The Contractor and its sureties in every case shall be liable for such damages, expenditures and extra expenditures, and for all additional cost of the Work which may be incurred by reason of termination of the Contract pursuant to this GC.62, together with the compensation for liquidated damages, if any, from the date fixed

for the Total Performance of the Work, and the same may be deducted or collected by the Owner as provided by GC.58.

All the powers of the Engineer with respect to the determination of any doubts, disputes and differences, and the determination of the sum or sums, or balance of money to be paid to or received from the Contractor, and otherwise in respect of the Contract shall nevertheless continue in force.

The fulfilment by the Contractor of any stipulation in the Contract may be enforced by legal proceedings and judgement, or order of Court, without prejudice to any other remedy herein contained. Neither the Owner nor any of its officials, officers, employees or other agents shall be liable or accountable to the Contractor in any way for the manner in which, or the price at which the Work, or any portion thereof, may have been or may be done or completed by the Owner.

No proceeding taken pursuant to this GC.62 or pursuant to any other provision of the Contract, shall at any time be deemed to be an assignment of the Contract or of any portion thereof, unless otherwise agreed to in writing.

GC.63 SUBMITTALS

The Contractor shall submit Product data and samples to the Engineer for review on request. The Contractor's responsibility for deviation in submittals is not relieved by the Engineer's review unless the Engineer gives written acceptance of specific deviations from the requirements of the Contract Documents. The Contractor shall make any changes in submittals which the Engineer may request consistent with the Contract Documents and shall resubmit as directed by the Engineer. The Contractor shall not proceed with work until relevant submittals have been reviewed by the Engineer. The Contractor shall co-ordinate submittals with the requirements of the Contract Documents and shall allow 10 calendar days for the Engineer's review.

GC.64 NON-RESIDENT WITHHOLDING TAX

If the Contractor is, at any time, a non-resident of Canada, within the meaning of the *Income Tax Act* (Canada) as amended, then, and the Contractor hereby so agrees, the Owner may deduct from all money payable under the Contract and remit to the Receiver-General of Canada, the Government of Canada or the Canada Revenue Agency sums required to be withheld and remitted by the *Income Tax Act* (Canada), as amended.

The Owner will receive a further credit under the Contract for money withheld as of and from the date of the withholding (regardless of when or whether remitted) and no interest will be payable by the Owner on sums withheld, not remitted as aforesaid and later paid directly to the Contractor.

GC.65 RELEASE AND INDEMNIFICATION

The Contractor now releases the Owner, its officers, officials, employees and agents from all costs, Losses, damages and expenses, including those caused by personal injury, death, property damage, loss and economic loss arising out of, suffered or experienced by the Contractor, its Subcontractors, and their respective officers, employees and agents, or suffered or experienced by any other entity or person in connection with the performance of the Work.

Despite the provision of insurance coverage by the Owner, the Contractor hereby agrees to indemnify and save harmless the Owner, its successors, assigns and authorized representatives and each of them from and against Losses, claims, damages, actions, and causes of actions that

the Owner may sustain, incur, suffer or be put to at any time either before or after the expiration or termination of the Contract, that arise out of the acts of the Contractor, its Subcontractors, or their respective officers, employees or agents under the Contract.

This indemnity will not affect or prejudice the Owner from exercising any other rights that may be available to it at law or in equity.

The release and indemnity set out above will survive the expiry or sooner termination of the Contract.

GC.66 NO PROMOTION OF RELATIONSHIP WITH THE OWNER

The Contractor shall not disclose or promote its relationship with the Owner, including by means of any verbal declarations, announcements, sales, marketing or other literature, letters, client lists, press releases, brochures or other written materials ("Communications") without the express prior written consent of the Owner (except as may be necessary for the Contractor to perform the Contractor's obligations under the terms of the Agreement). The Contractor shall not use the Owner's logo or any of the Owner's official marks without the express prior written consent of the Owner.

GC.67 WORK WITH ENGINEER AND COORDINATION ON SITE

In carrying out the Work, the Contractor shall coordinate the Work as necessary with the Engineer, the Owner and Other Contractors. The Contractor shall have no cause for claim against the City whatsoever with respect to delays or other interruption of the Work by City forces or due to the above requirement to coordinate the Work with the Engineer, the Owner and Other Contractors.

The Contractor will be responsible for completing the Work in a way that does not hinder other work on the Work Site being conducted either by the City or third parties. The Contractor will have no cause for claim against the City whatsoever with respect to delays or other interruption of the Work due to the above requirement to complete the Work in a way that does not hinder other work on the Work Site.

Notwithstanding any other provision hereof, the Contractor's rights to access the Landfill shall at all times be subordinated to the rights of Other Contractors already performing operations at the Landfill as of the date of the Agreement, as well as being subordinate to the regular commercial, governmental and residential users of the landfill.

Inspectors from the Ministry of Environment and other authorities having jurisdiction may make periodic visits to the Work Site during construction. The Contractor shall obey any orders from any such authorities requiring the Contractor to stop Work if in their opinion work is not being completed in accordance with Applicable Laws. The Contractor must provide at all times proper facilities for safe access to the Work by authorized government officials.

GC.68 DESIGN AND INSPECTION

The Engineer and the Owner may inspect the Work at any time without prior notice to the Contractor.

GC.69 [INTENTIONALLY DELETED]

GC.70 WORK DURING INCLEMENT WEATHER

In accordance with the Specifications, and expect with the explicit approval of the Engineer, no Work involving the placement, compaction and/or installation of materials within the Work Site (including, but not limited to the geomembrane, geotextiles, or soils) shall be conducted in rain or snow, wet Landfill surface conditions or in poor Landfill sub-grade conditions.

The Engineer may order the Contractor to cease Work operations in whole or in part due to inclement weather at any time.

Further to GC.10, there will be no extensions of time to complete the Work as provided for in the Construction Schedule granted and no extra compensation payable on account of delays in the Work caused by inclement weather, and any costs incurred by the Contractor to accelerate the Work in order to comply with the Construction Schedule will be borne solely by the Contractor.

GC.71 SUBSURFACE CONDITIONS

The Contractor now represents that it is experienced and familiar with assessing and working with the variable and unpredictable conditions in nature of compacted landfill waste materials and uncertain sub-surface conditions and acknowledges that the Owner has made available to it some information regarding the relatively unknown state of decay, decomposition and compaction and the types of residential, commercial, industrial waste, demolition and other materials put into the Landfill, and the Contractor now assumes all risks of any and all kind and nature associated with performing the Work on and in landfill waste, whether or not such risks arise due to the reasonably foreseeable consequences of working in and around landfill waste and whether or not such risks are the result of sub-surface conditions which were not known to the Contractor at the time of submitting the Contractor's Tender, and the Contractor now agrees not to make any claim for an extension of Contract Time or additional compensation for anything arising during the Contract which would not have occurred but for the conditions of the landfill waste contained in the Work Site.

The Contractor shall be solely and fully responsible to take all necessary measures to protect underground utilities from any excavation damage within the work site. The Owner has indicated the presence of underground utilities known to be within the proposed area of excavation on the Construction Drawings issued for Tender. The location of underground utilities as identify in the Drawings shall be considered approximate and for information only. The underground utilities include, but are not limited to fiber optic cables, pump discharge force mains, electrical conduits and cables, gas, water and sewage pipes. Irrespective of the depth of the utility line, the Contractor must not use mechanical excavating equipment to dig within the boundary limits to expose the utility line. Hydrovac excavation or equivalent can be used as an alternative to hand digging.

GC.72 ENVIRONMENTAL PROTECTION AND SUSTAINABILITY

The Contractor shall ensure that at all times in carrying out the Work it shall not do anything that might cause and shall do all things necessary to protect against any Work related environmental harm and shall cooperate fully with the City and local authorities to protect the natural environment.

The Contractor will provide environmentally sensitive products or services wherever possible. Where the Contract Documents require that the Contractor supply materials, and where such materials may cause adverse effects, the Tenderer is to notify the City of the nature of the hazard. The Contractor is to advise the City of any known alternatives or substitutes for such materials that would mitigate the effects of any adverse conditions on the environment.

GC.73 FORCE ACCOUNT

Payment for Force Account Work performed by the Contractor shall be calculated as follows:

- (a) Labour: at the lower of the hourly rates set out in the Tender under Schedule E- Force Account Labour & Equipment Rates including all amounts paid for labour and all related taxes, assessments payable as required by any statutory scheme such as workers' compensation premiums, employment insurance premiums, holiday pay, insurance and all employee benefits. A mark-up of 3% on the foregoing shall be allowed for all small tools. A mark-up of 10% on the total of the foregoing, including the foregoing mark-up, shall be allowed for overhead. A further mark-up of 10% on the total of the foregoing, including the foregoing mark-ups, shall be allowed for profit. Overtime rates will be determined as outlined in GC. 35.
- (b) Equipment shall be paid for in the lesser of:
 - (i) Contractor Owned or Bare Rented: at the non-operated hourly rates as set out in Schedule E - Force Account Labour & Equipment Rates, based on actual hours, in minimum increments of 0.5 hours, plus a 10% mark-up to cover all overhead costs and profit. Plus, an allowance for the operator wage as per GC. 73, subsection (a); or
 - (ii) Non- Contractor Owned and Operated: at the lower of the rate presented in Schedule 8- Force Account Labour & Equipment Rates for operated equipment, or the actual rental costs incurred by the Contractor, as evidenced by invoice, plus, in either case, a 10% mark-up to cover all overhead costs and profit.
 - (iii) All Found (AF) rates as presented in the Equipment Rental Rate Guide by BC Road Builders & Heavy Construction Association (Blue Book). If a particular item of equipment is not listed than a rate determined by the Engineer based on equivalent equipment shall be used.
 - (iv) Separate rental for small tools will not be allowed.
- (c) Materials incorporated into the work or consumed in performing the Work: at the Contractor's actual cost, as evidenced by invoice, including all transportation, freight and haulage costs plus a mark-up of 10% on such actual cost to cover all overhead, handling and profit.

Force Account Work performed by a Subcontractor (or a subcontractor of a Subcontractor) shall be paid for in the lesser of: (i) the amount as provided by subparagraphs (a), (b) and (c) above (as if the Subcontractor (or such subcontractor of a Subcontractor) were the Contractor), plus a mark-up of 10%, in total, to cover all overhead and profit of the Contractor, the Subcontractor and any such other subcontractor; or (ii) the actual amount the Contractor pays the Subcontractor, plus a mark-up of 10% on such actual amount to cover all overhead and profit.

GC.74 INTERRUPTIONS OF EXISTING GAS NETWORKS

All Work shall be performed in a manner which causes minimal disruption of the existing Landfill gas control systems, and the Contractor shall take all precautions necessary to ensure that the existing gas piping network, blower and flare system is maintained to allow continuous extraction of gas while the Work is being performed and to ensure that sufficient vacuum is maintained for each existing Landfill well that might be affected by the Work.

GC.75 LIQUIDATED DAMAGES

(intentionally deleted)

GC.76 COMPLIANCE WITH LAWS

The Contractor will complete the Work in accordance with the requirements of all Applicable Laws.

The Contractor will be required to obtain and pay for any applicable municipal, provincial and federal permits and licences necessary for the proper completion of the Work. Without limiting the foregoing, the Contractor will obtain any City of Delta permits, Ministry of Environment permits, FortisBC permits, or other required permits for the Work. The City will not be liable in any manner for same and the Contractor agrees to indemnify and save the City harmless from and against all claims and losses in relation to obtaining and paying for any applicable municipal, provincial and federal permits and licences necessary for the proper completion of the Work. Extra compensation will not be allowed for costs incurred by the Contractor as a result of the failure of the City or the Contractor to secure construction permits such that the Contractor can proceed with the Work in accordance with the Construction Schedule.

GC.77 QUANTITY VARIATION

If for any reason, including an addition or deletion of work, the actual quantity of a unit price item listed in the Schedule of Quantities and Prices varies, neither the Contractor nor the Owner shall be entitled to unilaterally revise the unit price of said item. The unit rates set out in the Schedule of Quantities and Prices shall be considered fixed.

GC.78 DAMAGE TO OTHER CONTRACTORS

If in the performance of the Work the Contractor causes damages to an Other Contractor, the Contractor shall use best reasonable efforts to reach a settlement with the Other Contractor. If an Other Contractor commences litigation or arbitration proceedings against the Owner on account of damage that the Other Contractor alleges was caused by the Contractor, then the Owner shall so notify the Contractor in writing. On written demand from the Owner, the Contractor shall, at the Contractor's own expense, reasonably cooperate with the Owner in the defence of the Other Contractor's claim, or assume the entire defence of the Owner. If a final order or judgement is given in such litigation or proceeding against the Owner the Contractor shall pay or satisfy it and pay all defence costs reasonably incurred by the Owner.

GC.79 LIVING WAGE

1. Definitions

For the purposes of this GC.79, the following terms shall have the following meanings:

- (a) "Living Wage" means the hourly wage established by the Living Wage Certifier from time to time, which, as of the date of execution of the Contract, is \$20.62 per hour, which includes: (i) direct wages; and (ii) the value of any non-mandatory benefits such as paid sick leave, employer-paid Medical Services Plan premiums and extended health benefits;
- (b) "Living Wage Certifier" means the Living Wage for Families Campaign, any successor entity, or, in the event the Living Wage for Families Campaign ceases to carry on operations, such other living wage certification entity designated by the Owner to the Contractor in writing;
- (c) "Living Wage Employee" means any and all employees of the Contractor and all Subcontractors of the Contractor that perform any part of the Work on a property owned by or leased to the Owner, including all streets, sidewalks and other public

rights of way, for at least one consecutive hour, but excluding Students, volunteers and employees of Social Enterprises;

- (d) "Social Enterprise" means a business that: (i) is owned by a non-profit organization or community services co-operative; (ii) is directly involved in the production and/or selling of goods and services for the combined purpose of generating income and achieving social, cultural, and/or environmental aims; and (iii) has a defined social and/or environmental mandate; and
- (e) "Student" means an individual who is enrolled in a school, college, university or other educational institution and is employed by the Contractor or a Subcontractor, as the case may be, to obtain practical workplace experience as a requirement of or credit for their education.

2. Payment of Living Wage

- (a) Notwithstanding any other provision of any Contract Document but subject to GC.79(2)(b), the Contractor shall pay all Living Wage Employees not less than the Living Wage.
- (b) Notwithstanding GC.79(2)(a), the Contractor has up to 6 months from the date on which any increase in the Living Wage is published by the Living Wage Certifier to increase wages for all Living Wage Employees such that all Living Wage Employees continue to be paid not less than the Living Wage.
- (c) The Contractor shall ensure that the requirements of GC.79(2) apply to all Subcontractors.
- (d) A breach by the Contractor of its obligations pursuant to GC.79(2)(a) and (c) shall be deemed to constitute a failure by the Contractor to comply with the requirements of the Contract to a substantial degree and shall entitle the Owner to terminate the Contract in accordance with GC.62.
- (e) The Contractor shall maintain up-to-date records and accounts which clearly document its satisfaction of the requirements of this GC.79 and shall make the same available to the Owner upon request. The Owner may request copies of all such records and accounts which shall be provided to the Owner by the Contractor (subject to reimbursement of the Contractor's reasonable copying costs and any other direct costs and expenses, if any) at any time prior to the expiry of 365 days after Total Performance of the Work or earlier termination of this Agreement. Any records and accounts provided by the Contractor in accordance with this Section GC.79(2)(e) shall be treated by the Owner as confidential information.
- (f) The Contractor shall, at the direction of the Owner, post signs at Sites that are owned by or leased to the Owner, including all streets, sidewalks and other public rights of way, informing Living Wage Employees of the obligations of the Contractor and Subcontractor pursuant to this GC.79 and providing contact information to report any breaches thereof. The Owner shall supply the Contractor with all such signs and the Contractor shall return all such signs upon completion of the Work or otherwise at the request of the Owner.
- (g) The Contractor shall prepare and submit to the City in a format reasonably acceptable to the City before January 31 of each calendar year of the term or, for each partial calendar year of the term, within 30 days of the expiry of the term a living wage report setting out:

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- (i) the number of Living Wage Employees of the Contractor and each Subcontractor who were paid a Living Wage pursuant to this Section GC.79 during the previous calendar year or portion thereof that would not have received a Living Wage for substantially similar work but for the obligations of the Contractor pursuant to this GC.79; and
- (ii) the total incremental costs incurred by the Contractor, including any amounts paid to Subcontractors, in order to fulfill its obligations pursuant to this GC.79 to pay a Living Wage to the Living Wage Employees described in GC.79(e)(i).

SCHEDULE 2
SPECIFICATIONS AND DRAWINGS

The following is a list of the Specifications and Drawings:

SPECIFICATIONS

ENG - TLO - VL - Construction & Demolition - C&D - Material Recovery Plant - COV - Surface Treatment
- Pre-Load - PS20181106 - Specifications - 2018-07-27 - Clean

DRAWINGS

TLO168D - “ENG - TLO - VL - C&D - Material Recovery Plant - COV - Preload Plan”

TLO169D - “ENG - TLO - VL - C&D - Material Recovery Plant - COV - “Stockpile Road & Demo Facility
Grading Details”

The above listed Specifications and Drawings are in the form provided or available to the Contractor as part of the Invitation to Tender.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. General Safety Provisions
- B. Site Specific Health and Safety Plan
- C. Special Safety Provisions
- D. Safety Provisions Related to Operations at Landfill
- E. Contractor Safety Equipment and Monitoring Instruments
- F. Additional Safety Requirements
- G. Sanitation
- H. Site Health and Safety Officer

1.2 GENERAL SAFETY PROVISIONS

- A. The landfill has been filled with a variety of materials, including asbestos and large waste. Therefore, the Contractor shall exercise caution during all work below the ground surface. In particular, asbestos, landfill gas, and large-sized waste may be encountered and must be dealt with safely by the Contractor. Large-sized waste must be excavated carefully by the Contractor so that nearby utilities (including gas mains) are not disturbed. The Contractor shall be responsible for damage caused to utilities during the excavation process.
- B. The Contractor shall be solely and completely responsible for conditions of the jobsite, including safety of all persons (including employees) and property during the performance of the Work. This requirement shall apply continuously and not be limited to normal working hours. Safety provisions shall conform to Provincial Standards, and all other applicable federal, provincial and local laws, ordinances, codes, and regulations. Where any of these are in conflict, the more stringent shall be followed. The Contractor's failure to thoroughly familiarize himself/herself with the aforementioned safety provisions shall not relieve him/her from compliance with the obligations and penalties set forth therein.
- C. The Contractor shall develop and maintain for the duration of this Contract, a safety program that will effectively incorporate and implement all required safety provisions. The Contractor shall appoint an employee who is qualified and authorized to supervise and enforce compliance with the safety program.
- D. The duty of the Owner does include a review of the Site Specific Health and Safety Plan. The Owner's review does not constitute an approval of the adequacy of the Contractor's safety program and plan documents, safety supervisor, or any safety measures taken in, on, or near the Project site.
- E. The Contractor, as part of their Site Specific Health and Safety Plan, shall maintain at his office or other well-known place at the Project site, safety equipment and instruments applicable to the work as prescribed by the aforementioned authorities, all articles necessary for giving first aid to the injured, and shall establish the procedure for the immediate removal to a hospital or a doctor's care of persons (including employees) who may be injured on the Project site.
- F. If death or serious injuries or serious damages are caused, the accident shall be reported immediately by telephone or messenger to both the Engineer and the Owner. In addition, the Contractor must promptly report in writing to the Owner all accidents whatsoever

arising out of, or in connection with, the performance of the Work whether on, or adjacent to, the Project site, giving full details and statements of witnesses.

- G. If a claim is made by anyone against the Contractor or any subcontractor on account of any accident, the Contractor shall promptly report the facts in writing to the Engineer and the Owner, giving full details of such claim.

13 SUBMITTALS

- A. Not applicable.

14 SITE SPECIFIC HEALTH AND SAFETY PLAN

- A. The Contractor shall develop and maintain for the duration of this Contract, a Site Specific Health and Safety Plan prepared under the supervision of and signed by a Certified Registered Safety Professional (CRSP) or Certified Health and Safety Consultant (CHSP) with knowledge and/or experience in health and safety issues related to landfills that will effectively incorporate and implement all required Municipal, Provincial (Workers' Compensation Board Occupational Health and Safety Regulation), and Federal safety provisions. The Site Specific Health and Safety Plan is also required to meet the requirements contained in GC.7. The Contractor shall provide a written Site Specific Health and Safety Plan for the construction within 10 days after receiving a Notice to Proceed. The Contractor shall maintain at least one copy at the work site at all times.
- B. If the contract work extends past 12 months, the Contractor will review their Site Specific Health and Safety Plan and re-submit the reviewed Site Specific Health and Safety Plan to the Owner.
- C. Preparation of the Site Specific Health and Safety Plan is solely the Contractor's responsibility and no statement made in these provisions shall relieve Contractor of sole responsibility for information included and implementation of the Site Specific Health and Safety Plan.
- D. Submission of the Site Specific Health and Safety Plan is solely for evidence of compliance with the Contract Documents, and for reference and general information. Submission and subsequent review by Owner shall not relieve Contractor from sole responsibility as to the adequacy of its Site Specific Health and Safety Plan.
- E. The Engineer's or Owner's review of the Contractor's performance is not intended to include a review or approval of the adequacy of the Contractor's safety supervision, safety program or any safety measures taken in, on, or near the Site.
- F. The Contractor's Site Specific Health and Safety Plan should include, but not be limited to, the following:
 - 1. A pre-contract hazard assessment, including mitigation measures, that may be encountered on the Landfill site or while carrying out the Work. Schedule 10 contains a list of site specific hazards which may be unique to the Landfill. Procedures or other practices which are followed by Landfill staff as mitigation measures are also listed for the Contractor's information. The Contractor is required to develop and implement their own mitigation measures which eliminate or control all identified hazards.
 - 2. A list of chemical and physical hazards (e.g., exposure to methane, asbestos contaminated material, electrical shock, etc.), allowable exposure levels, threshold limit values, other regulatory exposure levels, and the emergency response should an exposure or injury occur.
 - 3. The Contractor, as a part of their safety program, shall maintain at the job site, safety equipment applicable to the work as prescribed by the governing safety authorities

- and all articles necessary for giving first aid to the injured.
4. A system or process to ensure effective site orientation and hazards communication with all persons entering the Site. The City's Site Safety Orientation/Agreement, contained in Schedule 12, shall form part of the Contractor's site orientation.
 5. The Contractor shall maintain at the site office a list of Contractor personnel on site at the start of each Working Day and a contact person in the event of a Site evacuation.
 6. The Contractor shall maintain at the site office a written sign in and sign out log to monitor and account for sub-contractors, deliveries and other persons entering and leaving the Contractors work site(s).
 7. The Contractor shall ensure all persons accessing their work site are under the control of the Contractor and are adhering to the Contractor's Health and Safety Program and Site Specific Health and Safety Plan.
 8. A plan to carry out inspections, pre-job, toolbox meetings, safety committee meetings, incident review, and other meetings as required by the Contractor's Health and Safety Program.
 9. Documentation of the initial Site safety meeting, safety committee meetings, other regular safety meetings, reviews of Subcontractors' safety systems, inspection and incident investigations, first aid records, orientation and training.
 10. An emergency evacuation plan for immediate removal to a hospital or a doctor's care any person who may be injured on the job site, including an evacuation plan route to medical treatment, and emergency telephone numbers, including hospital, ambulance, fire, police, poison control, the Owner, the Engineer, and others as deemed necessary.
 11. Communication protocols for reporting to the Owner documentation of monthly first aid, medical aid, and lost time statistics, site formal inspections, incident reports, safety meeting minutes, confined space entry permits, and hot work permits.
 12. Communication protocols for reporting to the Owner, Engineer and WorkSafe BC any incident or event requiring immediate notice to WorkSafeBC under Sec. 172, Workers Compensation Act.
 13. Communication protocols for immediate reporting of any incident or event via an immediate email distribution "Flash Report" as described in the Contractor Safety Absolutes (Schedule 19).
 14. Hygiene monitoring program, including equipment action levels, frequency of testing, and recommended responses.
 15. Any other relevant information or documentation to meet the provisions listed in Part D – Form of Agreement.
 16. Identification of each Subcontractor's safety officer.
 17. A list of safety equipment and monitoring instruments at the job site and locations where equipment and instruments are stored or expected to be maintained.
 18. Procedures for entering confined spaces.
 19. Procedures for energy lockout.
 20. Procedures for ground disturbance of any kind, including excavation and drilling and

movement of the landfill surface near landfill gas installations.

- G. Contractor shall inform all workers and the public visiting the site of the potential for the presence of methane and other landfill gases emanating from the natural decomposition of refuse buried at or near the job site, and the importance of safety precautions to ensure the safety of all workers and the public. Contractor shall also instruct all workers and maintain strict control of construction activity to protect and maintain the integrity of the landfill gas installations.
- H. The Contractor shall submit three (3) copies of the Site Specific Health and Safety Plan in accordance with Schedule 17 Summary of Submittals and Submittal Procedures Specification. The Contractor shall submit any revisions to the Site Specific Health and Safety Plan that occur after commencement of work.
- I. Failure on the part of the Contractor to follow the plan or to continue any work in an unsafe manner may result in suspension of the work by the Owner. The Contractor shall not be entitled to extra compensation for health and safety related suspensions, nor shall the contract completion date be extended.
- J. The Contractor shall perform whatever work is necessary for safety and be solely and completely responsible for conditions of the Site, including safety of all persons (including employees of the Owner, Engineer, any Site visitors, and Contractor) and property during the Contract period. This requirement applies continuously and is not limited to normal working hours.
- K. No Work can commence on Site until the Contractor has submitted their Health and Safety Program and Site Specific Health and Safety Plan to the City and received written confirmation of receipt by the City.

1.5 SPECIAL SAFETY PROVISIONS

- A. The Contractor is advised of the following safety issues and hazards which relate to the Work and/or Site. This section is not intended to be exhaustive. The Contractor is referred to the Owners List of Known Workplace Hazards in Schedule 10. Notwithstanding, the Contractor is responsible for identifying and mitigating all safety hazards/risks at the Site relating to the Work.

1.6 SAFETY PROVISIONS RELATED TO OPERATIONS AT LANDFILL

- A. Contractor shall be responsible for informing employees and subcontractors and their employees of the potential danger in working on and near landfills.
- B. Contractor shall be familiar with the following document: "*A Compilation of Landfill Gas Field Practices and Procedures*", Health and Safety Section prepared by the SWANA Landfill Gas Management Division August 2011. Copies may be obtained from SWANA at 1100 Wayne Avenue – Suite 650, Silver Springs, Maryland 20910, telephone number (301) 589-7068.
- C. Contractor is advised that the construction of this project is being performed in and adjacent to buried wastes and refuse. During construction activity, the potential exists to puncture containers that could become explosive, release pockets of landfill gas under pressure, release fluids that could be contaminated, create surface subsidence by shifting refuse, and other types of hazards. Exposure to decaying wastes is possible during this work. Exposure may also include possible contact with leachate, asbestos, inhalation of landfill gas, silica and exhaust, explosion, pathogenic bacteria, and others.
- D. As these buried materials decompose, they will generate gas, which typically consists of carbon dioxide, methane, and trace amounts of other gases, including but not limited to, hydrogen sulfide, dependent upon the composition of the buried materials. These gases normally vent to the atmosphere through the cover soils, but can migrate laterally through

soil and waste to adjacent areas depending on site and weather conditions.

- E. Landfill gases have the potential to create hazardous conditions if not controlled or recognized. Some of the hazards include:
1. Fires which may start spontaneously from exposed and/or decomposing refuse.
 2. Fires and explosions which may occur from the presence of methane gas.
 3. Landfill gases which may cause an oxygen deficiency in underground trenches, manholes/catch basins, and other structures.
 4. Hydrogen sulfide, a highly toxic and flammable gas, which may be present.
 5. Possible caving of trenches and excavations when working over or in refuse fills.
 6. Possible exposure to asbestos contaminated material brought to the surface of the landfill as a result of drilling process for landfill gas extraction wells.
- F. Asbestos Control
1. The Vancouver Landfill accepts asbestos containing material from various sources such as construction demolition sites. Over the life of the landfill, the material has been buried at various locations within the landfill.
 - a. Landfill surface/lower layers - Contractors who will be disturbing the landfill surface or lower layers with drilling, excavation or trenches should anticipate contact with asbestos containing material.
 - b. Buildings/structures - Contractors disturbing buildings and structures shall determine the potential presence of asbestos containing material.
 2. Contractors will establish an Asbestos Exposure Control Plan for the handling and disposal of asbestos containing material and the plan must include the following:
 - a. Monitoring procedures.
 - b. Worker & public protection procedures.
 - c. Handling procedures.
 - d. Disposal procedures
 3. Worker and Public Notification

The Contractor shall inform all workers and the public visiting the work area of the potential for exposure to asbestos contaminated material from construction disturbance and the importance of safety precautions to ensure the safety of all workers and the public.
 4. Drilling/Excavation/Trenching Safety
 - a. An Exposure Control Plan is required for drilling, excavation and trenching operations due to the presence of asbestos in within drill cuttings or excavated waste material. The Exposure Control Plan shall include ambient air monitoring and/or personal monitoring to confirm a safe distance from drilling, excavation or trenching activities at which a respirator is not required to be worn with respect to landfill gases and airborne asbestos.
 - i. Where an air monitoring and/or personal monitoring determines that air purifying respirator (APR) is necessary, the Contractor shall provide an appropriate APR (half-face or full-face) with approved cartridges for each crew member. All personnel using APR shall be properly trained and fit-tested prior to use.

- b. Contractor is to fully understand special considerations outlined in this section and provide adequate safety measures including barriers around open excavation, trenching and boreholes, the borehole being drilled and excavation/trench openings, gas detection equipment, ventilation in drilling area, and fire safety equipment during all drilling and well completion operations.
- c. Drilling area must be continuously monitored during drilling operations for combustible gases, volatile organic vapours and hydrogen sulphide using a Photoionization Detector (PID) monitor with a 10.6 eV lamp, or equivalent. The Contractor shall provide a portable, intrinsically safe "brush fan" for ventilation or similar device as approved by the Engineer and Owner.
- d. Driller and crew shall wear appropriate personal protective equipment to meet with personal health and safety requirements for the Work (minimum shall include standard protection hard hat, safety glasses, hearing protection and special safety equipment to include disposable coveralls and reflective yellow vest; Boots: Steel-toe, chemical resistant; Gloves: Nitrile or equivalent).

5. Handling Procedures

The following asbestos-containing waste handling procedures shall be implemented:

- a. Temporary barriers will be erected 10 metres upwind and 25 metres downwind of all work sites and dumping areas to prevent unauthorized access to these hazard areas by unprotected workers.
- b. All persons within 8 meters of the operations shall wear an asbestos HEPA approved respirator. Personnel shall wear disposable (Tyvek) coveralls, gloves, and foot coverings. Personnel shall be properly trained on the health effects of asbestos, proper work practices, and the use of respirators.
- c. All disposable (Tyvek) coveralls will be considered to be contaminated with asbestos and shall be disposed of accordingly.
- d. A water truck equipped with the appropriate spraying equipment to produce a fine mist will be required at all times to keep the suspected asbestos containing material wet at all times.
- e. All drill cuttings or excavation material that is not already damp upon removal from the workings will be immediately wetted and placed into a poly-lined container of sufficient size and strength to hold the material and not permit the container to break or spill material.

6. Disposal of suspected asbestos containing material:

- a. If material is being placed in a large container or truck box, the material shall be deposited into a poly-lined container or truck box for subsequent loading and hauling to the final onsite disposal area.
- b. The liner of the container shall be of sufficient strength and thickness to prevent tearing and puncture of the liner when handling the material and transporting the container to the final disposal location. The liner shall stay intact without seam separation or damage throughout the handling and disposal process.
- c. The container or box shall be sealed once it is full and during transfer to the final waste disposal area.

7. If the material is being hand bagged, the contractor's Asbestos Exposure Control Plan shall include abatement procedures that include double bagging in 6 ml yellow disposal bags.
8. Material shall be disposed of at an onsite location specifically designated by the Owner or Engineer for disposal of asbestos contaminated material.
9. The Owner shall be notified of the status of the asbestos containing waste materials on a daily basis while handling and disposing of asbestos containing waste.

G. Procedure for Inadvertent Utility Strike

WorkSafeBC considers utility strikes, including gas filled pipes and lines, as a potential "major release of hazardous substance". Below is the current City of Vancouver practice:

1. A Contractor striking any utility "live or not" must immediately stop work and report to the Owner.
2. The Owner, in consultation with the contractor and the City of Vancouver Operations Support and Safety Branch (OSSB), will determine if the strike falls under WorkSafeBC definition of "major release of a hazardous substance". The Owner and OSSB will determine if a report will be submitted to WorkSafeBC by the Contractor or by the Owner.

1.7 CONTRACTOR MONITORING INSTRUMENTS

- A. The Contractor shall provide and maintain monitoring instruments at the site. Monitoring instruments shall include, but not be limited to, the following:
 1. Oxygen meter
 2. Combustible gas meter
 3. Hydrogen sulfide meter
- B. Monitoring instruments may also include, but do not require, either a HNu or similar photo-ionizing detector or an Organic Vapor Analyzer for monitoring volatile organic constituents in the air.
- C. Personnel shall be trained in the use of appropriate monitoring instruments that would be utilized during the course of the work. It is the responsibility of the Site Health and Safety Officer, or person(s) in authority, to ascertain that all monitoring equipment is being used when appropriate.

1.8 ADDITIONAL SAFETY REQUIREMENTS

- A. In addition to conforming to the safety rules and regulations of Governmental authorities having jurisdiction, Contractor shall conform to the following precautionary measures:
 1. Smoking is not permitted at the site. The Contractor is responsible to ensure that the Contractor's workers and subcontractor's workers do not smoke at the site
 2. Any refuse exposed during the construction shall be covered as soon as possible after exposure with at least a 300 mm (12-inch) layer of soil. In no event shall refuse remain exposed overnight.
 3. No arc or gas welding shall be permitted in trenches, enclosed areas, or over refuse unless performed in specially ventilated and secured areas of the site tested and approved by the Site Health and Safety Officer.
 4. Construction equipment used in excavating activities and/or refuse removal operations shall be equipped with vertical exhaust and spark arrestors.

5. Electric motors utilized in excavation areas and below ground shall be explosion proof.
6. Work Site Delineation: mark work sites under the control of the Contractor with signs, delineators, tape or other means to inform others where the Contractor's work site begins and ends.

1.9 SANITATION

A. The Contractor Site sanitation shall provide the following.

1. Break Area
 - a. Breaks will be taken in a clean zone away from the active work area. No smoking, eating, drinking, or gum or tobacco chewing will be permitted in the work area.
2. Potable Water
 - a. An adequate supply of potable water will be provided at the break area.
 - b. Portable containers used to dispense drinking water will be capable of being tightly closed and will be equipped with a tap dispenser. Water will not be consumed directly from the container or dipped from the container.
 - c. Containers used for drinking water will be clearly marked and will not be used for any other purpose.
 - d. Disposable cups will be supplied; both a sanitary container for unused cups and a receptacle for disposing of used cups will be provided.
3. Sanitary Facilities
 - a. Access will be provided to wash facilities before eating or drinking.
4. Lavatory
 - a. If permanent toilet facilities are not available, an appropriate number of portable chemical toilets will be provided.
5. Garbage and Recyclables Collection
 - a. Waste and recyclables collected in the support and break areas will be sorted and disposed of as directed by the Owner or Engineer. Labeled recyclables and trash receptacles will be set up in the support and break areas.

1.10 SITE HEALTH AND SAFETY OFFICER

- A. The Contractor shall assign an individual serving as a Site Health and Safety Officer at the job site. The Site Health and Safety Officer shall have a full understanding of the Site Specific Safety Program as well as a strong knowledge of WorkSafeBC OHS Regulations. The Site Health and Safety Officer shall be responsible and authorized to supervise and enforce compliance with the Contractor Health and Safety Program and Site Specific Health and Safety Plan.
- B. The Site Health and Safety Officer will act as the Qualified Coordinator as defined by Workers' Compensation Board.
- C. The Site Health and Safety Officer shall be thoroughly trained in rescue procedures, and the use of safety equipment and monitoring instruments. This person shall be present

during working hours and shall implement the safety plan and shall coordinate monitoring.

- D. The Site Health and Safety Officer shall have the delegated authority to order any person or worker on the Landfill site to follow the Site Specific Health and Safety Plan. Failure to observe the plan shall be sufficient cause for removal of the person or worker(s) from this Project.
- E. The Site Health and Safety Officer shall be responsible for determining the extent to which any safety equipment and instruments must be utilized, depending upon conditions encountered at the site.

Section 31 20 01 Preload

1.0	GENERAL	.1	This section refers to the portions of the work that are unique to the supply, placement and removal of preload material required for settlement mitigation.	
1.1	Related Work	.1	Environmental Protection	Section 01 57 01
		.2	Excavation, Trenching and Backfilling	Section 31 23 01
		.3	Geosynthetics	Section 31 32 19
		.4	Aggregates and Granular Materials	Section 31 05 17
		.5	Settlement Gauges Instrumentation Requirements	Section 31 21 01
1.2	Definitions	.1	Preload clear crush is defined as material placed above the non-woven geotextile as per drawing. Preload clear crush shall be placed to a target elevation upon completion of clear crush placement. Preload clear crush top-ups are not required during the preload monitoring period.	
		.2	Preload aggregate is defined as material placed above the triaxial geogrid and below the non-woven geotextile as per drawing.	
1.3	Protection of Work Property	.1	Placement of granular materials around existing utilities and drainage pipes shall be carefully controlled to minimize differential lateral loading on the infrastructure.	
1.4	Measurement and Payment	.1	Payment for preload work related to the supply, placement and removal of Preload will be made per tonne of preload clear crush and aggregate materials placed.	
		.2	Payment for all other items will be made per square metre, number of units or lump sum as indicated within the Schedule of Quantities including: <ul style="list-style-type: none"> • Mobilization; • Demobilization; • Traffic Management, • Clearing & Grubbing; • Geosynthetic materials; and • Settlement gauges. 	
		.3	The unit rates for preload shall be accepted as full compensation for all work done and accepted by the Engineer, including: <ul style="list-style-type: none"> • Repair of damaged settlement gauge, non-woven 	

PRELOAD

			geotextile;
			<ul style="list-style-type: none"> • Repair of any preload clear crush and preload aggregate due to improper placement of material; • Temporary erosion and sediment control; • Installation, repair of preload work.
1.5	Inspection and Testing	.1	The Contractor shall submit unit sieve data for the proposed preload clear crush and preload aggregate for approval by the Engineer's geotechnical engineer at least 3 days prior to commencing preload placement.
		.2	The Contractor shall survey the as-built top and toe of preload and submit to the Contractor Administrator within 48 hours upon completion of preload placement. The as-built shall include the surveyed locations of all settlement monitoring gauges.
2.0	PRODUCTS		
2.1	General	.1	The Contractor shall supply and place geosynthetic materials and granular material to the specified elevations and dimensions shown on the drawings.
	Supply of Materials by the Owner		The City's Kent Yards is able to provide 800 tonnes of 19mm minus Recycled Aggregate every Thursday that can be used as part of the scope of this Tender. The Contractor is to incorporate this material into the Pre-Load. See Item 5.03 in the Schedule of Quantities which consists of pricing for placement only (no transportation or supply) of 19mm minus Recycled Aggregate.
2.2	Granular Materials	.1	<p>Preload aggregate refers to City of Vancouver Kent Yard Material #30 or City of Vancouver Street Restoration Manual 19mm Minus Combined Crushed Aggregate (Mulch) Fill (City of Vancouver #9)</p> <p>See the following link for the City's Street Restoration Manual:</p> <p>https://vancouver.ca/files/cov/vancouver_street_restoration_manual.pdf</p>
		.2	Preload Clear crush material to have generally uniform gradation limits as specified with 60% of the material passing each sieve. Must have one or more fractured faces. The 5 to 25 mm clear crush drainage gravel shall have permeability greater than 5 x 10 ⁻¹ cm/s.
2.3	Geosynthetic Materials	.1	Geogrid: Triaxial geogrid shall be integrally formed polypropylene triaxial geogrid and shall meet the following specification:
		.1	Rib pitch (nominal dimensions) - Longitudinal and Diagonal 40mm
		.2	Mid-rib depth – Longitudinal and Diagonal 1.2mm
		.3	Mid-rib width – Longitudinal and Diagonal 1.1 mm

.4	Rib Shape	Rectangular
.5	Aperture Shape	Triangular
.6	Junction Efficiency (ASTM D6637-10 & ASTM D7737-11)	93%
.7	Isotropic Stiffness Ratio	0.6
.8	Radial Stiffness at low strain	225 kN/m @ 0.5% strain
.2	Non-woven geotextile shall meet the following specifications:	
.1	Grab Tensile Strength (ASTM D4632)	min. 0.71 kN
.2	Grab Tensile Elongation (ASTM D4632)	min. 50%
.3	CRB Puncture (ASTM D6241)	min. 1.8 kN
.4	Tear (ASTM D4533)	min. 0.250 kN
.5	Apparent Opening Size (ASTM D4751)	min. 0.212 mm
.6	UV Resistance (ASTM D4355)	min. 70% retained at 500hr

3.0 EXECUTION

3.1 General

- .1 The Contractor shall implement temporary erosion and sediment controls prior to commencing preload fill placement.
- .2 The Contractor shall place geosynthetic materials, settlement gauges and granular materials to the dimensions shown on the drawings.

3.1 Preparation

- .1 The Contractor shall check for unstable area and areas required additional filling. Granular aggregates for base shall be used for filling if required.

3.2 Construction Sequence

- .1 The Contractor shall place geogrid in accordance to the drawings and specifications.
- .2 The Contractor shall place granular aggregates for base in 250mm lifts and compact to 95% Modified Proctor Density. City of Vancouver Kent Yard Material #30 shall be used. If material is not available from Kent Yards, 19mm Minus Combined Crushed Aggregate can be used provided written permission from the Engineer.
- .3 The Contractor shall place non-woven geotextile in accordance to the drawings and specifications.
- .4 The Contractor shall install settlement gauges at 25 m spacing as shown on the drawing.
- .5 The Contractor shall place Preload clear crush in lifts of 500mm

thickness and compact to a minimum of 85% modified proctor.

**3.2 Settlement
Monitoring**

- .1 The Contractor shall collect settlement monitoring data for the preload areas in accordance with Section 31 21 01.
- .2 It is estimated that the preload periods will be between six to nine months after completion of preload fill placement, but the actual duration will be based on interpretation of the monitoring data by the Engineer.
- .2 Settlement gauges damaged during the settlement monitoring period shall be replaced by the Contractor within 24 hours. Failure to promptly replace the gauges could delay approval to remove preload.

**3.4 Preload
Removal**

- .1 The Contractor shall remove the preload clear crush down to non-woven geotextile elevation and settlement gauges only upon approval by the Engineer.
- .2 The Contractor shall roll up the non-woven geotextile and store as per the Engineer direction within the Landfill site.
- .3 The Engineer will provide the location where preload clear crush shall be placed during the removal. All preload clear crush removed will be placed within the Vancouver Landfill not to exceed 1km.

END OF SECTION 31 20 01

Section 31 20 01 Settlement Gauges Instrumentation Requirements

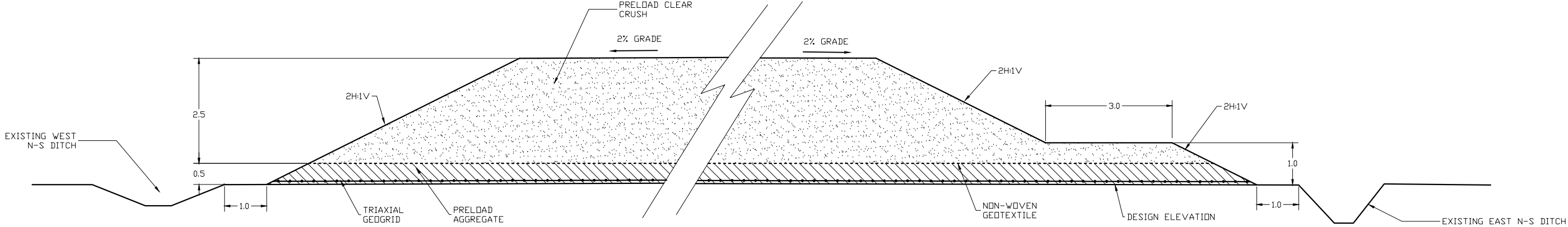
1.0	GENERAL	.1	Section 31 21 01 refers to those portions of the work where instrumentation is required to confirm displacement during preload.
1.1	Related Work	.1	Excavation, Trenching and Backfilling <u>Section 31 23 01</u>
		.2	Aggregates and Granular Materials <u>Section 31 05 17</u>
		.3	Preload <u>Section 31 20 01</u>
1.2	Definitions	.1	Settlement gauge is an instrument to monitor vertical movement of preload fill.
1.3	Protection of Work Property	.1	Work around existing utilities and drainage pipes shall be carefully controlled to minimize differential lateral loading on the infrastructure.
1.4	Measurement and Payment	.1	Payment for settlement gauge is made per gauge.
		.2	The unit rate for gauges shall be accepted as full compensation for all work done and accepted by the Engineer, including: <ul style="list-style-type: none"> • Installation of settlement gauges. • Baseline readings.
2.0	PRODUCTS		
2.1	General	.1	The Contractor shall supply, install and maintain all settlement gauges. Any damage to settlement gauges as a result of construction activity, vandalism or otherwise will be the sole responsibility of the Contractor.
		.2	Northings, eastings and elevation shall be collected for all monitoring points.
2.2	Materials	.1	Settlement Gauges shall consist of a plywood sheet base (600 mm x 600 mm x 38 mm thick) complete with standard 1.52 m length, 38 mm diameter, steel riser pipes and couplers. Riser pipes shall be secured to the plywood sheet by a 150 mm square (or round) x 12 mm thick steel flange that is securely bolted to the plywood base.
3.0	EXECUTION		
3.1	General	.1	The Contractor shall place the settlement gauges on top of the non-woven geotextile at 25 m grid spacing as per drawing.

SETTLEMENT GAUGES INSTRUMENTATION REQUIREMENTS

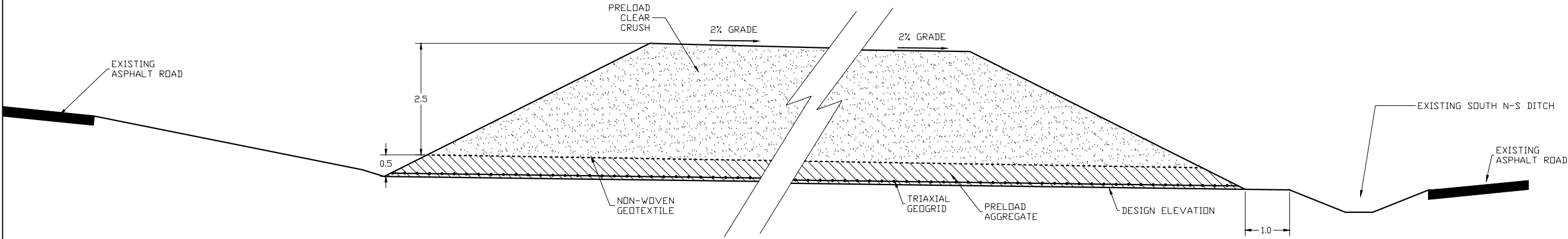
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|------------|------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | .2 | The gauges shall extend at least 1.2 m above the top of the fill during each lift. |
| | | .3 | Settlement gauge bases shall be ballasted using a minimum of two standard sandbags packed with fill material, or other approved means, to ensure that they remain securely in place until sufficient preload fill is placed around them. |
| 3.2 | Settlement Monitoring | .1 | The Contractor shall survey and record the base plate elevation and top of pipe on the day of placement. All pipe extensions to the settlement gauges, number and lengths, shall be recorded by the Contractor. |
| | | .2 | Baseline readings shall comprise
2 readings on 2 consecutive days prior to the start of
preload fill placement. |
| | | .3 | The Contractor shall present the data to the Engineer 3 days after the baseline reading is completed. |
| | | .4 | The Engineer shall instruct when it is appropriate for the Contractor to remove the Pre-Load. |

END OF SECTION 31 21 01

NOTES:
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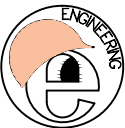
DETAIL A-A
PRELOAD EAST-WEST



SECTION B-B
PRELOAD NORTH-SOUTH

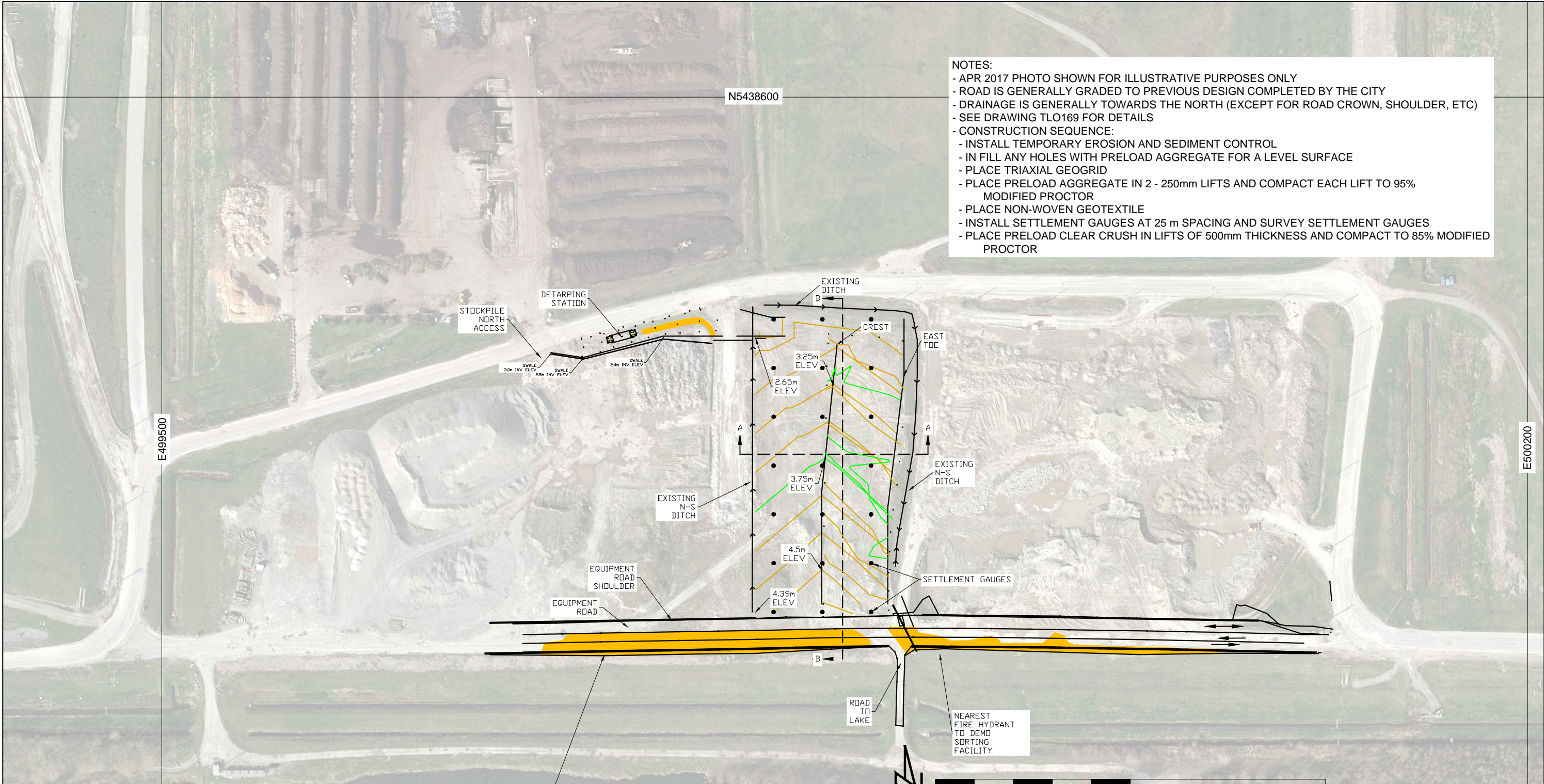


F	21AUG2018	ISSUED FOR ITT – REVISION	SK		<div>ENGINEERING SERVICES</div> <div>BRANCH INITIALS DATE</div> <div>CHECKED</div> <div>CHECKED</div> <div>UNITS: METRES DATUM: UTM NAD 83 ZONE10</div>
E	25JUL2018	ISSUED FOR ITT	SK		
D	21JUN2018	ISSUED FOR REVIEW – ADD NON-WOVEN GEOTEXTILE	SK		
C	4JUNE2018	ISSUED FOR REVIEW – GRANULAR THICKNESS	SK		
A	21AUG2018	ISSUED FOR REVIEW	SK		
NO.	DATE	REVISION	BY	CHK	





ENGINEERING SERVICES				SCALE: 1:100	
DIV./BR. TRANSFER&LANDFILL OPS.		ENG – TLO – VL – C&D –		Y:\LANDFILL	
DATE: 3MAY2018	DESIGN: S.KO.	MATERIAL RECOVERY PLANT – COV –		ENGINEERING – TLO – drawings	
DWG: S.KONG	CHK: J.SOBE.	SURFACE TREATMENT PRELOAD DETAIL		DWG. NO.	TLO169
REFS: TLO168				SHEET...1..OF...1..	REVISION:.....F.....

THIS PRINT SUPERSEDES ALL PRINTS OF THIS DRAWING BEARING PREVIOUS REVISION NUMBERS



- NOTES:
- APR 2017 PHOTO SHOWN FOR ILLUSTRATIVE PURPOSES ONLY
 - ROAD IS GENERALLY GRADED TO PREVIOUS DESIGN COMPLETED BY THE CITY
 - DRAINAGE IS GENERALLY TOWARDS THE NORTH (EXCEPT FOR ROAD CROWN, SHOULDER, ETC)
 - SEE DRAWING TLO169 FOR DETAILS
 - CONSTRUCTION SEQUENCE:
 - INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL
 - IN FILL ANY HOLES WITH PRELOAD AGGREGATE FOR A LEVEL SURFACE
 - PLACE TRIAXIAL GEOGRID
 - PLACE PRELOAD AGGREGATE IN 2 - 250mm LIFTS AND COMPACT EACH LIFT TO 95% MODIFIED PROCTOR
 - PLACE NON-WOVEN GEOTEXTILE
 - INSTALL SETTLEMENT GAUGES AT 25 m SPACING AND SURVEY SETTLEMENT GAUGES
 - PLACE PRELOAD CLEAR CRUSH IN LIFTS OF 500mm THICKNESS AND COMPACT TO 85% MODIFIED PROCTOR

	F	21AUG2018	ISSUED FOR ITT – UPDATED CONSTRUCTION NOTE	SK			ENGINEERING SERVICES							
	E	25JUL2018	ISSUED FOR ITT	SK			BRANCH		INITIALS	DATE	<div>DIV./BR. TRANSFER&LANDFILL OPS.</div> <div>DATE: 3MAY2018</div> <div>DESIGN: S.KON</div> <div>DWG: S.KONG</div> <div>CHK: J.S0BE.</div> <div>REFS: TL0131</div>	<div>ENG – TLO – VL – C&D – MATERIAL RECOVERY PLANT – COV – SURFACE TREATMENT PRELOAD PLAN</div>	SCALE: 1:2000	
	D	21JUN2018	ISSUED FOR REVIEW – UPDATED CONSTRUCTION NOTES_3	SK			CHECKED			DIRECTORY: Y:\LANDFILL				
	C	4JUNE2018	ISSUED FOR REVIEW – UPDATED CONSTRUCTION NOTES_2	SK			CHECKED			ENG – TLO – drawings				
	A	21AUG2018	ISSUED FOR REVIEW	SK			UNITS: METRES DATUM: UTM NAD 83 ZONE10			DWG. NO. TLO168				
	NO.	DATE	REVISION		BY		CHK						SHEET...1...OF...1...	REVISION:....F....

SCHEDULE 3
SCHEDULE OF QUANTITIES AND PRICES
[To be added from Contractor's Tender.]

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING FUTURE C&D SITE - VANCOUVER LANDFILL
SCHEDULE 4 - SUBCONTRACTORS AND SUPPLIERS

SCHEDULE 4
SUBCONTRACTORS AND SUPPLIERS

SUBCONTRACTORS

Type of Work	Subcontractor	Address

SUPPLIERS (THESE ARE ALSO "SUBCONTRACTORS" FOR PURPOSES OF THE CONTRACT).

Item	Supplier/Manufacturer	Address

No Subcontractor listed in Schedule 4 shall be replaced without the written consent of the City, which consent shall not be unreasonably withheld.

SCHEDULE 5
CONSTRUCTION SCHEDULE

[To be attached.]

SCHEDULE 6
PERFORMANCE AND LABOUR AND MATERIAL PAYMENT BONDS

[\[To be attached.\]](#)

SCHEDULE 7
INSURANCE CERTIFICATES

[\[To be attached.\]](#)

SCHEDULE 8
FORCE ACCOUNT LABOUR AND CONSTRUCTION EQUIPMENT RATES

[To be added from the Tender.]

**SCHEDULE 9
INSURANCE**

1. All Risk Course of Construction Insurance

(a) Coverage

"All Risks" of physical loss or damage.

(b) Property Insured

(i) At Site

All materials, equipment and machinery, labour and supplies of any nature whatsoever, Work in progress, including property of the insured or of others for which the insured may have assumed responsibility, to be used in or incidental to the Site preparations, demolition or existing structures, erection and/or fabrication and/or reconstruction and/or repair of the project insured, commencing when the property becomes at the insured's risk, at the Site, and while there awaiting, during and subsequent to erection and/or fabrication and/or repair and/or testing.

(ii) Transit

Property to enter into and form a part of the project insured, from the commencement of loading at the original point of shipment anywhere in Canada or the continental United States of America, but excluding such property in the course of manufacturing or processing within buildings at the manufacturer's or supplier's site.

(iii) Off-Site

Off-Site coverage shall apply to property that is to be incorporated into and form a part of the project insured, anywhere in Canada or the Continental United States of America, but excluding such property while in transit or in the course of manufacturing or processing within buildings at the manufacturer's or supplier's site.

(c) Insureds

The Owner, the Contractor, and their respective officials, officers, employees and agents.

(d) Term

During the period of the construction operations and also during any period in which the property insured is being prepared for use and while partially used or occupied; provided all coverage shall cease when the Work has been formally accepted as complete by the Owner, whichever shall first occur.

(e) Limit and Deductibles at Site

(i) Limit of Liability: Full replacement value of the Work

(ii) Deductible not to exceed \$5,000.

2. "Wrap Up Liability Insurance"

(a) *Insureds*

The Owner, the Engineer, the Contractor, and all Subcontractors, and their respective officials, officers, employees and agents.

(b) *Limits*

Bodily injury liability and property damage liability including aggregate products and completed operations: \$5,000,000 for each occurrence.

(c) *Extensions of Coverage*

- (i) Broad form products and completed operations liability, including coverage for activities of the Contractor and Subcontractors during the completed operations period;
- (ii) Owner's and contractor's protective liability;
- (iii) Blanket contractual liability;
- (iv) Contingent employer's liability;
- (v) Personal injury liability;
- (vi) non-owned automobile liability;
- (vii) Cross liability or severability of interest clause;
- (viii) Employees as additional insureds;
- (ix) Blasting, collapse, underpinning, shoring, pile driving, dredging or grading activities;
- (x) Loading and unloading of automobiles;
- (xi) Hoist liability;
- (xii) Unlicensed and specially licensed vehicles;
- (xiii) Operation of attached machinery;
- (xiv) Limited pollution liability arising out of hostile fire and sudden and accidental release of contaminants.

(d) *Deductibles*

Deductible not to exceed \$5,000.

(e) *Cross Liability*

The insurance shall apply to any action brought against any one of the insureds by any other insured in the same manner as though separate policies were issued to each.

(f) *Term*

Period of construction or completion of the Work, whichever shall first occur, plus 24 months for completed operations liability thereafter.

(g) *Waiver of Subrogation*

It is understood and agreed that in the event of a loss and upon payment of claim hereunder, the insurer will waive the any right of subrogation against the Owner, the Engineer and all architects, engineers or consultants engaged in or connected with the construction and Site preparation and related operations of the Work and any of their servants, agents, employees, and parent, subsidiary, affiliated or associated firms.

3. **Automobile Insurance**

A standard owner's form automobile policy for licensed vehicles providing third party liability and accident benefits insurance as provided by the Insurance Corporation of British Columbia (Autoplan) in accordance with applicable British Columbia law, with the minimum limits as follows:

Bodily injury and property damage (third party limit) inclusive limit: \$5,000,000.

4. **Contractor's Equipment Insurance**

"All Risk" insurance with insurers acceptable to the Owner, covering all construction equipment, owned or rented, or for which the Contractor or any of its Subcontractors may be responsible. In the event of loss or damage to the said construction equipment, or any part thereof, the Contractor or the Subcontractor, as the case may be, shall, if so requested by the Owner in writing, forthwith replace such damaged or destroyed construction equipment.

It is understood and agreed that in the event of a loss and upon payment of claim hereunder, the insurer will waive any right of subrogation against the Owner, the Engineer and all architects, engineers or consultants engaged in or connected with the construction and Site preparation and related operations of the Work and any of their servants, agents, employees, and parent, subsidiary, affiliated or associated firms.

SCHEDULE 10
CITY PRE-CONTRACT HAZARD ASSESSMENT FORM

Vancouver Landfill Owner's List of Known Workplace Hazards

CONTRACT TITLE:

**CONSTRUCTION SERVICES FOR PRELOADING FUTURE C&D SITE -
VANCOUVER LANDFILL**

PROJECT MANAGER (CITY EMPLOYEE): FAISAL MIRZA

CONTRACT NAME & # (IF KNOWN): PS20181106

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), radioactive substances.

Work Description:

The Work generally includes, but is not limited to:

- *Earthworks including excavation, site preparation and movement of soil materials;*
- *Supply and installation of preloading aggregate, dirt, geogrid, geotextile, and settlement gauges;*
- *Moving of utilities;*
- *Removal of preloading aggregate, dirt, geotextile and settlement gauges;*
- *Traffic Management; and*
- *Acting as the Prime Contractor on site.*

Work Changes

If there are any changes to the work description, please review this document to ensure any additional hazards posed by the new scope of work are identified.

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 asbestos bin, buried throughout the Landfill site with some locations identified, and any area of the site due to accidental receipt.	Yes (Y) No (N) Not Applicable (NA) To Be Determined (TBD)
a) Asbestos containing materials (ACM) may be encountered	N
b) A hazardous materials assessment for asbestos is provided in the tender package	N
c) A hazardous materials assessment for asbestos is the responsibility of the contractor	Y

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	N
b) A hazardous materials assessment for lead is provided in the tender package	Y
c) A hazardous materials assessment for lead is the responsibility of the contractor	Y

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 resource document for (list the specific hazardous material) is provided in the tender package Document title: NA	N
b) A resource document for (list the specific hazardous material) will be provided in the tender package Document title: NA	N
c) A hazard assessment for (list the specific hazardous materials) will be the contractors responsibility	Y

4. CONFINED SPACES - as marked on site at flare station, pump station, compost, scales, admin parking lot. Examples include flares, 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	N
b) The City of Vancouver shall provide procedures to isolate adjacent piping, or to lock out equipment (complicated systems only)	N
c) The contractor shall be responsible for isolation and lockout procedures in the confined space	Y

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)	N
b) Work will be performed on or near energized equipment, lines, or circuits	N

If yes to a) or b) describe:

There are power poles on the north side of the ditch.

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/maintenance, tent installation, awning/canopy installation, overhead air exchange installation/maintenance, 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)	N
b) Scaffolding or ladders will be required to be secured to a building or structure	N

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	N
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). Form 30M33 is the assurance in writing acceptable to WorkSafe BC.	N
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. Form 30M33 is the assurance in writing acceptable to WorkSafe BC.	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. The work will require the owner's utility plans and/or BC1 Call package as appropriate.	NA

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?

The power poles along the north side of the site are clearly visible.

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)	N
b) Workers will be required to enter an excavation over 1.2m (4 ft) in depth	N

9. CHEMICALS, SOLVENTS, FUMES, VAPORS, AND/OR DUSTS - various nuisance 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	N

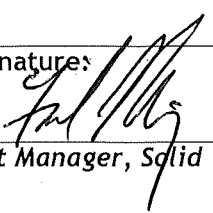
If yes to a), list the work processes and/or chemicals in use:

To the north and south of the site are main roads which may create dust if not watered in time. To the east is the dirt site which may also cause dust if handled or moved. To the west are concrete and rubble piles which may cause dust if dumped, crushed or moved.

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

If a) is Yes, the Vancouver Landfill Noise Exposure Control plan is 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)	N
b) eye hazards (throughout the site)	Y
c) fires/explosion (Landfill active face, composting facility, flare station, equipment, throughout the site)	Y
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) Silica dust (background levels at active face, demolition area, and scales)	Y
h) trip/slip hazards (throughout the site)	Y
i) violence (scalehouse, RDO, active face, compost)	NA
j) Landfill gas arising from the decomposition of municipal solid waste (flare station, active face, landfill gas piping system, demolition area, pump station, low lying areas such as trenches or ditches)	Y
k) Equipment tipping/rollover (RDO, active face, compost, demolition area)	Y
l) Hot surfaces (equipment, flare station)	Y

KNOWN WORKPLACE HAZARDS LIST COMPLETED BY	
Project Manager Name (print): <i>Faisal Mirza</i>	
Project Manager Signature: 	Date: <i>Aug 24, 2018</i>
Title: <i>Senior Project Manager, Solid Waste Strategic Services</i>	Phone: <i>604-616-4386</i>

SCHEDULE 11 - CONTRACTOR PRE-CONTRACT HAZARD ASSESSMENT FORM

[Completed form to be attached to the finalized agreement.]

Contract Title _____

Project Manager (City Employee) _____

Contractor Representative _____

Contract Name and No. _____

PURPOSE

This document shall be completed by the contractor awarded the contract, who shall identify all the known and potential work process hazards associated with the contract. The contractor, who is responsible for all identified actions, shall provide a completed Pre-Contract Hazard Assessment Form to the Project Manager (City employee) for review and consultation before the contract work begins.

REFERENCE MATERIAL

In order to complete this document, the contractor should refer to a completed copy of any "List of Known Workplace Hazards," provided with the tender package. The contractor is also responsible to refer to any "Hazardous Materials Assessments," provided by the City with the tender package, and possibly referred to in such a "List of Known Workplace Hazards."

INSTRUCTIONS FOR COMPLETION

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

Yes (Y) this work process or worksite hazard will exist for this contract and is the responsibility of the contractor

No (N) even though the work process or worksite hazard will exist, it will not be the responsibility of the contractor

Not Applicable (NA) the work process or worksite hazard is not applicable for this contract

Each grouping of safety hazards or issues in this document (bold text, capitalized) may list some examples of work tasks where the relevant hazard may be encountered. These examples are not conclusive; there may be other examples of work tasks that create such a hazard or issue.

DOCUMENTATION AND TRAINING REQUIREMENTS

During the contract term, the contractor may be requested by the City of Vancouver, and shall provide documented evidence for items identified with a (D) in this document.

The summary table at the end of the document provides all potentially required documentation, and if applicable, the WCB OHS Regulation reference.

For any identified hazard marked with a (T), the contractor is responsible to train its employees.

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE 11 - CONTRACTOR PRE-CONTRACT HAZARD ASSESSMENT FORM

HAZARDOUS MATERIALS

The contractor is responsible for providing additional information on hazardous materials which may be encountered as part of the work process, yet not identified in the List of Known Workplace Hazards.

Hazard or Issue	Project Manager		
	Yes (Y), No (N) or Not Applicable (NA)		
1. Asbestos-containing Materials. Disturbance or penetrations of flooring, walls, ceiling tiles, pipe lagging, ac pipe, transite siding, particularly in older facilities; e.g., furniture/fixture installation, carpeting/flooring services, and boiler repair/tune-up services. Asbestos containing materials can be disturbed when excavating landfill waste material.			
(a) We have reviewed the hazardous materials assessment for asbestos provided by the City of Vancouver (or third party) in the tender package	Y	N	NA
(b) We will provide a written hazardous materials assessment for asbestos	Y	N	NA
(c) We have a written Asbestos Exposure Control Program (D)	Y	N	NA
(d) As "prime contractor", we will submit a Notice of Project Asbestos(NOP-A) to WorkSafeBC at least 24 hours in advance of the project start-up	Y	N	NA
2. Lead-containing Materials. Disturbance of lead-based paint, particularly in older facilities. Also present in certain electrical circuitry and metal alloys; .e.g., overhead bridge crane maintenance/repair, high-voltage cable splicing services, boiler repair/tune-up services, fixture installation services, and chiller maintenance/repair services. Lead painted materials can be disturbed when excavating landfill construction and demolition waste material.			
(a) We have reviewed the hazardous materials assessment for lead provided by the City of Vancouver (or third party) in the tender package	Y	N	NA
(b) We will provide a written hazardous materials assessment for lead	Y	N	NA
(c) We have a written exposure control program for Lead (D)	Y	N	NA
3. Other Hazardous Materials. May include pcb's, cfc's, moulds, mercury, ozone depleting substances (ods), radioactive substances, sewage and unidentified contaminated hazardous materials, other: (list other here) _____ _____ _____			
(a) We have reviewed the hazardous materials assessment for (insert hazardous material type here) provided by the City of Vancouver, or a third party, in the tender package	Y	N	NA
(b) We have reviewed the hazardous materials assessment for (insert hazardous material type here) provided by the City of Vancouver, or a third party, in the tender package	Y	N	NA
(c) We will provide a hazardous materials assessment for (insert hazardous material type here)	Y	N	NA

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE 11 - CONTRACTOR PRE-CONTRACT HAZARD ASSESSMENT FORM

Hazard or Issue	Project Manager		
	<i>Yes (Y), No (N) or Not Applicable (NA)</i>		
(d) We will provide a hazardous materials assessment for (insert hazardous material type here)	Y	N	NA
4. Confined Spaces. Working in vaults, chambers, pits, tanks, etc.; e.g., construction, inspection and testing services, water/fuel storage tank clean-out services, utility corrosion inspection services and waste material trenching with a potential presence of landfill gas.			
(a) We have reviewed the confined space hazard assessment provided by the City of Vancouver in the tender package	Y	N	NA
(b) We have a written confined space entry program (D)	Y	N	NA
(c) Our employees have received confined space training (T)	Y	N	NA
(d) We shall complete a confined space hazard assessment specific to the work to be performed (D)	Y	N	NA
(e) We shall develop site specific written safe operating procedures (including evacuation and rescue components) prior to starting work (D)	Y	N	NA
(f) We shall identify and record isolation points (D)	Y	N	NA
(g) We will develop alternate procedures (as per WCB OHS Regulation # 9.22) to be used to isolate adjacent piping containing harmful substances (D)	Y	N	NA
(h) We will provide for the services of rescue persons	Y	N	NA
If yes to (g), provide brief description: _____ _____ _____			
5. Lock Out. Industrial equipment maintenance, power machinery repair services, pump maintenance/repair services, mechanical refrigeration systems, elevator repair, overhead bridge crane maintenance/repair services, cathodic protection services, hydraulic test systems repair/service, and air compressor rebuilding services			
(a) We will be required to lock out in order to isolate or prevent the unexpected release of energy (electrical, mechanical, hydraulic, chemical, thermal, kinetic, gravitational, pneumatic)	Y	N	NA
(b) We will perform work on, or near, energized equipment, lines or circuits	Y	N	NA

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE 11 - CONTRACTOR PRE-CONTRACT HAZARD ASSESSMENT FORM

Hazard or Issue	Project Manager
	<i>Yes (Y), No (N) or Not Applicable (NA)</i>
<p>Note: If yes to (a) or (b) above, no work may be performed until reviewed by City of Vancouver project manager or project manager designate.</p> <p>If yes to (a) or (b) describe:</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>6A. Fall Protection. Tree pruning, window and ledge cleaning, window replacement, overhead bridge crane maintenance/repair services, roll-up door replacement, tent installation, awning/canopy installation, overhead air exchange installation, construction inspection and testing services.</p>	
<p>(a) Our employees 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)</p>	Y N NA
<p>(b) We will produce a written Fall Protection Plan for work that will occur more than 25 feet above grade, or, if written procedures (control zone) are to be used as the means of fall protection (D)</p>	Y N NA
<p>(c) Our employees who will be required to use fall protection have received training (T)</p>	Y N NA
<p>If yes to (a), describe:</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>6B. Scaffolding and Ladders. Window replacement or cleaning, tree pruning, roll-up door replacement, tent installation, and awning/canopy installation</p>	
<p>(a) Our employees will use scaffolding or ladders for access to the work</p>	Y N NA
<p>(b) The scaffolding or ladders will be exposed to wet and/or slippery conditions</p>	Y N NA
<p>(c) We will ensure scaffolding or ladders are secured before accessing the worksite</p>	Y N NA
<p>(d) Scaffolding will be erected and dismantled only by qualified workers</p>	Y N NA
<p>7. Overhead Power Lines and Underground Utilities. Tree pruning services, tree removal, utility relocation or replacement, underground utility identification services, concrete sawing services, pole painting, ground disturbance around landfill gas piping and lines.</p>	
<p>(a) There are electrical hazards associated with overhead power lines such as limits of approach and contact</p>	Y N NA

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE 11 - CONTRACTOR PRE-CONTRACT HAZARD ASSESSMENT FORM

Hazard or Issue	Project Manager		
	<i>Yes (Y), No (N) or Not Applicable (NA)</i>		
(b) We will obtain necessary assurances, in writing, through the utility company, for any work where minimum limits of approach cannot be maintained	Y	N	NA
(c) Underground or hidden utilities may be on the job site and we shall contact the Project Manager and BC OneCall at least four business days prior to the start of any excavation work	Y	N	NA
(d) In the event of an inadvertent utility strike, we will have a written procedure for immediate notification of both the utility company and WorkSafeBC (D)	Y	N	NA
8. Construction, Excavation, shoring and Demolition			
(a) As "prime contractor", we will submit a Notice of Project (NOP) to WorkSafeBC at least 24 hours in advance of the project start-up date	Y	N	NA
(b) Workers may be required to enter an excavation over 1.2m (4 ft) in depth	Y	N	NA
(c) We will develop site specific written safe operating procedures, including evacuation and rescue components, prior to starting any excavation work (D)	Y	N	NA
(d) Shoring will be installed in accordance with Part 20 of the WorkSafeBC OH&S Regulation	Y	N	NA
(e) We will provide safe means of entry and exit for excavations	Y	N	NA
(f) We will provide for the services of rescue persons and equipment (excavation rescue)	Y	N	NA
(g) We will develop a demolition/salvage plan (D)	Y	N	NA
(h) We will evaluate the demolition materials for reuse or recycling	Y	N	NA
(i) We will protect passers-by from potential hazards	Y	N	NA
9. Chemicals, Solvents, Fumes, Vapours and Dusts. Cleaning solvents, adhesives, paints, coatings, binders; e.g., storage tank clean-out services, countertop installation (epoxies), flooring, vehicle exhaust.			
(a) We will complete a hazard assessment for chemicals we will use in our work, and if chemicals already exist at the workplace, our assessment will identify possible results of any reactions between our chemicals and those of the City's operations	Y	N	NA
10. Noise and Vibration. Includes installations and heavy equipment operation. Noise examples for 85 - 90 dbA (at noise source) include forklift, smoke alarm, table saw. Whole body vibration examples include truck or equipment operator and jackhammer operation			
(a) Our employees will be exposed to noise levels above 85dbA	Y	N	NA
(b) We have a written hearing conservation program (D)	Y	N	NA

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE 11 - CONTRACTOR PRE-CONTRACT HAZARD ASSESSMENT FORM

Hazard or Issue	Project Manager		
	<i>Yes (Y), No (N) or Not Applicable (NA)</i>		
(c) Our employees will be exposed to excessive levels of whole body vibration (WBV)	Y	N	NA
11. Occupational Health and Safety Program			
(a) We have a written Safety Program (D)	Y	N	NA
(b) We will make regular inspections of all workplaces	Y	N	NA
(c) We will immediately investigate any reported unsafe conditions and correct as required	Y	N	NA
(d) We will investigate all incidents and provide written incident reports to the Project Manager	Y	N	NA
(e) We will develop a written Site Specific Health and Safety Plan (D) identifying the hazards associated with the project work activities being performed and how risk to the public and workers will be minimized (will include the use of barriers and safe entry/exit points from the worksite).	Y	N	NA
12. First Aid			
(a) First aid equipment, supplies, facilities and services will be readily accessible during working hours	Y	N	NA
(b) We will complete a first aid assessment (D)	Y	N	NA
(c) We will post site drawings and signs indicating the location of, and how to summon, first aid	Y	N	NA
(d) We will develop an effective means of communication between the first aid attendant and the work areas	Y	N	NA
13. Fire Protection. Solvents, fuels, soldering, torch cutting, or heating devices; e.g., gasoline and diesel fuel delivery services, flooring services, fire suppression service, and water pipe repair services			
(a) We will weld, solder, or cut with a torch	Y	N	NA
(b) We will use or store flammable/combustible liquids	Y	N	NA
(c) We will use temporary heating devices	Y	N	NA
(d) We will provide water and/or fire extinguishers on the job site	Y	N	NA
14. Personal Protective Equipment (PPE)			
(a) We will ensure our workers have appropriate personal protective clothing and equipment (e.g., safety footwear, hi-vis vests, hardhats, eye protection, face protection, hearing protection, chemical gloves/clothing)	Y	N	NA
(b) We have a written PPE program (D)	Y	N	NA
15. Respiratory Protection			
(a) The work will involve materials or processes requiring respiratory protection	Y	N	NA

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE 11 - CONTRACTOR PRE-CONTRACT HAZARD ASSESSMENT FORM

Hazard or Issue	Project Manager		
	<i>Yes (Y), No (N) or Not Applicable (NA)</i>		
(b) We have a written respiratory protection program (D)	Y	N	NA
16. Tools Machinery and Equipment			
(a) We will use powder-actuated tools.	Y	N	NA
(b) Our employees who operate equipment have been trained and are qualified in use of that equipment. (T)	Y	N	NA
If yes to (a), describe: _____ _____ _____			
17. Cranes, Forklifts, and Manlifts. Heavy or oversized goods delivery, tree pruning, overhead bridge crane maintenance/repair, and roll-up door replacement			
(a) We will use a crane, forklift, manlift or other lifting equipment	Y	N	NA
(b) Our lifting and rigging equipment is certified where applicable, and inspected on a regular basis	Y	N	NA
(c) Our operators shall have a valid operators certificate (mobile crane or tower crane) or have received training (boom lift, scissor lift or forklift) (T)	Y	N	NA
(d) Only lifting attachments approved for use by the forklift manufacturer will be used	Y	N	NA
18. Rigging			
(a) We will lift or sling loads overhead	Y	N	NA
(b) We will inspect ropes, hooks and slings before use on each shift	Y	N	NA
19. Motor Vehicles and Heavy Equipment. Goods delivery, personnel transportation services, trailer relocation services, oil/water pump-out and recycling services, asphalt grinding and asphalt sealing services, weed/brush abatement and mowing services, landscape hydro-seed services, tree stump grinding, and concrete sawing and removal			
(a) We will use motor vehicles or heavy equipment at the work location	Y	N	NA
(b) All operators have a valid provincial driver's license	Y	N	NA
(c) We will inspect vehicles, including safety features (e.g., ROPS)	Y	N	NA
20. Traffic Control			
(a) There will be uncontrolled movement of vehicular traffic at the worksite	Y	N	NA
(b) We will develop a written traffic control plan (D)	Y	N	NA

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE 11 - CONTRACTOR PRE-CONTRACT HAZARD ASSESSMENT FORM

Hazard or Issue	Project Manager
	<i>Yes (Y), No (N) or Not Applicable (NA)</i>
(c) We will put in place any required traffic control devices	Y N NA
(e) The traffic control devices conform to the Ministry of Transportation and Infrastructure (MoTI) "Traffic Control Manual for Work on Roadways"	Y N NA
We will provide Traffic Control Persons (TCP's) as required by law and/or to meet on site traffic control needs.	Y N NA
21. Crystalline Silica Dust	
(a) Our work will involve jackhammering, rotohammering, drilling, grinding or other disturbance of concrete or stone, excavation, equipment use creating potential exposure to silica dust	Y N NA
(b) We have a written Silica Exposure Control Program	Y N NA
22. Additional Concerns	
We foresee additional health and safety concerns associated with the work	Y N NA
If yes, describe: (a) _____ (b) _____ (c) _____ (d) _____ (e) _____ (f) _____	
Describe the control measures each of the concerns listed above: (a) _____ (b) _____ (c) _____ (d) _____ (e) _____ (f) _____	

PRE CONTRACT HAZARD ASSESSMENT COMPLETED BY	
Contractor's Representative Name (print):	
Contractor's Representative Signature:	Date:
Title:	Phone:

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE 11 - CONTRACTOR PRE-CONTRACT HAZARD ASSESSMENT FORM

CONTRACTOR'S DESIGNATE RESPONSIBLE FOR ONSITE SAFETY			
Name (print):			
Title:		Phone:	
			<i>Yes (Y), No (N) or Not Applicable (NA)</i>
Summary of Documentation (D) to be Provided by the Contractor upon request by the City of Vancouver (documentation required as per Workers Compensation Board Occupational Health and Safety (WCB OHS) Regulation, the Workers' Compensation Act (WCA) or the City of Vancouver)			
(a)	Safety Program (WCB OHS Regulation Parts 3.1-3.3)	Y	N NA
(b)	Asbestos Exposure Control Plan (WCB OHS Regulation Part 6.3)	Y	N NA
(c)	Lead (Pb) Exposure Control Plan (WCB OHS Regulation Part 6.60)	Y	N NA
(d)	Respiratory Protection Program (WCB OHS Regulation Part 8.5)	Y	N NA
(e)	Confined Space Entry Program (WCB OHS Regulation Parts 9.5 and 9.6)	Y	N NA
(f)	Plan for minimizing risk to public and to workers (City of Vancouver)	Y	N NA
(g)	Personal Protective Equipment (PPE) Program (WCB OHS Regulation Part 8.5)	Y	N NA
(h)	Hearing Conservation Program (WCB OHS Regulation Part 7.5)	Y	N NA
(i)	Confined Space Hazard Assessment (WCB OHS Regulation Part 9.9)	Y	N NA
(j)	Work Procedure, including evacuation and rescue, for confined space (WCB OHS Regulation Part 9.10 and 9.11)	Y	N NA
(k)	Identification of Isolation Points (confined space) (WCB OHS Regulation Part 9.19)	Y	N NA
(l)	Alternate procedures to isolate adjacent piping (confined space) (WCB OHS Regulation Part 9.22)	Y	N NA
(m)	Fall Protection Plan (WCB OHS Regulation Part 11.3)	Y	N NA
(n)	Traffic Control Plan (Ministry of Transportation and Infrastructure (MOTI) manual, as referenced in WCB OHS Regulation Part 18.3)	Y	N NA
(o)	In the event of a utility strike, a written procedure for notification of Utility Provider (WCB OHS Regulation Part 4.18) and WorkSafeBC (Workers' Compensation Act Part 3, Division 10, Sec. 172 (1)(c))	Y	N NA
(p)	Work Procedure (including evacuation and rescue) for excavations (City of Vancouver)	Y	N NA
(q)	Demolition/Salvage Plan (City of Vancouver in reference to WCB OHS Regulation Part 20.112)	Y	N NA
(r)	First Aid Assessment (WCB OHS Regulation Part 3.16 (2))	Y	N NA
Summary of Training Requirements (T) of Contractor Employees (for any persons completing this type of work throughout the duration of the contract)			
(a)	Confined Space Entry (WCB OHS Regulation Part 9.8)	Y	N NA

INVITATION TO TENDER NO. PS20181106
CONSTRUCTION SERVICES FOR PRELOADING - VANCOUVER LANDFILL
SCHEDULE 11 - CONTRACTOR PRE-CONTRACT HAZARD ASSESSMENT FORM

	<i>Yes (Y), No (N) or Not Applicable (NA)</i>		
(b) Fall Protection (WCB OHS Regulation Part 11.2 (6))	Y	N	NA
(c) Equipment Operation (WCB OHS Regulation Part 4.3(1)(b)(i)(ii))	Y	N	NA
(d) Mobile Equipment (ex. boom lift, scissor lift, forklift) (WCB OHS Regulation Part 16.4)			

SCHEDULE 12
LANDFILL SITE SAFETY ORIENTATION/AGREEMENT



Engineering Services - VL

Safe Operating Procedure

Title:	#3 Site Safety Orientation and Agreement
Branch:	Transfer & Landfill Operations
Site:	Vancouver Landfill
VanDoc:	ENG – TLO 0 VL Active SOP's 0 #3 Site Safety Orientation and Agreement

REVISION HISTORY				
Rev. No.	DCR#	Description	Date Created/Revised	Created/Revised by
1		Complete revision	Revised Nov 2017	R. Weiss (OHS Supt), Tech Team
2		Added CoV Alcohol, Controlled Drugs & Medication Policy information	Revised 26 July 18	R. Weiss (OHS Supt.)
3		Addition of steamer information	Revised 8 Aug 18	R. Weiss (OHS Supt.)
4		Addition of vehicle backing and LFG pressurization info	Revised 24 Aug 18	R. Weiss (OHS Supt.)

The City of Vancouver, Transfer & Landfill Operations Branch requires that all persons working on the Vancouver Landfill (VL) site receive the following orientation before any work begins, and at regular intervals in future. The orientation identifies the hazards that may be encountered, and requirements which are in place for your safety. All individuals shall understand and agree to comply with this document to have access to work on this site.

This orientation shall be delivered by Transfer and Landfill Operations or Equipment Services staff. Please note that you will receive this orientation at least every six (6) months or if it has been more than six (6) weeks since your last visit to the Vancouver Landfill site.

CONTRACTORS / VENDORS / CITY OF VANCOUVER BRANCHES

Contractors, vendors or employees from other City of Vancouver branches must receive the following orientation before commencing business on the Landfill site. Each contractor, vendor or City of Vancouver employee (or team of employees) will be assigned a Landfill Site Contact as a point of contact for any questions or reporting of hazards, concerns or incidents. It is the responsibility of the contractor, vendor or City of Vancouver employee to communicate with their Site Contact in advance of their visit or at a minimum as soon as they arrive on site.

The name of your Landfill Site Contact person is: _____
Cell number: _____

SITE CONTACT – CHECK WHICH SECTIONS THE READER MUST COMPLETE

- ☐ Part One - General Safety – Pages 2 to 10, sign page 13
- ☐ Part Two - Equipment Services (EQS) Landfill Garage – Pages 11 to 12, sign page 13 (required only by those who will be entering the EQS Landfill Garage).

PART ONE - GENERAL SAFETY

I. SITE PLAN

Site Address 5400 72nd Street, Delta, BC

Contact Numbers Landfill Office 604.606.2700
First Aid Cell Phone 604.603.1655



SEE APPENDIX "A" FOR ROAD NUMBERING MAP

II. LANDFILL SITE HAZARDS

The hazards that may be encountered at the Landfill are listed in alphabetical order by area below.

√ General Site Hazards – Apply to all workers.			
<ul style="list-style-type: none"> • Animal or insect stings • Confined spaces (as marked) • Electrical hazards • Eye hazards (ie. Dust) • Fall protection (working at height of ≥10 ft.) • Fires/explosions • Landfill gas 		<ul style="list-style-type: none"> • Mobile equipment and vehicle traffic • Poor housekeeping • Power outage • Slips, trips, and falls • Spills • Weather (affects equip/vehicle operation, walking surfaces, etc.) 	
☐ Residential Drop-Off (RDO) Area		☐ Disposal Area Active Face	
<ul style="list-style-type: none"> • Asbestos • Bed Bugs • Compressed gas cylinders • Cuts (blades, sharp objects, puncture) • Dust, including silica • Equipment tipping/rollover • Flying objects 		<ul style="list-style-type: none"> • Heat/cold stress for worker • Lifting hazards • Mobile equipment and vehicle traffic • Needle sticks • Noise • Toxic gases • Violence 	
<ul style="list-style-type: none"> • Asbestos • Bioaerosols (mould, bacteria, wastewater) • Bio-hazardous materials • Compressed gas cylinders • Cuts (blades, sharp objects, puncture) • Dust, including silica • Equipment tipping/rollover 		<ul style="list-style-type: none"> • Flying objects • Heat/cold stress for worker • Landfill gas • Mobile equipment and vehicle traffic • Needle sticks • Noise • Toxic gases • Uneven terrain 	
☐ Compost Facility		☐ Scalehouse	☐ Leachate Pump Station
<ul style="list-style-type: none"> • Bioaerosols (mould, bacteria) • Dust, including silica • Equipment tipping/rollover • Flying Objects 		<ul style="list-style-type: none"> • Blood borne pathogens (money handling) • Congestion & obstructions • Dust, including silica • Long stationary posture • Vehicle traffic • Noise • Violence 	<ul style="list-style-type: none"> • Confined spaces • Electrical (lockout) • Landfill gas • Leachate
☐ Flare Station		☐ Other Areas	
<ul style="list-style-type: none"> • Above-ground pressurized pipelines • Compressed gas cylinders • Confined spaces (marked) • Congestion & obstructions • Electrical (lockout) • Flame flashback during flare start-up 		<ul style="list-style-type: none"> • Heat/cold stress for worker • Hot surfaces • Landfill gas • Lifting hazards • Vehicle traffic • Noise • Overhead hazard • Toxic gases • Working alone or in isolation 	
		Site Contact To List & Discuss (i.e.: C&D Recovery Project, Closed Areas, Landfill Service Maintenance Yard, Dirt Site, Burns Bog) <ul style="list-style-type: none"> • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____ 	

Various controls have been implemented to minimize the risk of all the listed hazards. If you have any questions or concerns about hazards or require further information, please discuss with your Site Contact.

NOTE: If you notice a hazard or unsafe condition, **please correct it immediately**. If you are unable to correct the hazard or unsafe condition yourself, report it immediately to your Site Contact.

III. SAFETY RULES

SIGN IN AND OUT

- **All contractors/vendors/City of Vancouver employees must sign in and out** on a “Vancouver Landfill Sign-in Sheet” at the Landfill Administration Building Office or Technical Trailer Office during regular office hours.
- Choose the sign in location where your Site Contact is located. Example: If your Site Contact has an office in the Technical Trailer, then you should sign in at the Technical Trailer and inform your Site Contact of your arrival.
- Please note sign in/sign out locations on the map below.

Landfill Administration Building Office

Location: 2nd Floor on East Side of Administration Building.

Tel: **604.606.2710**

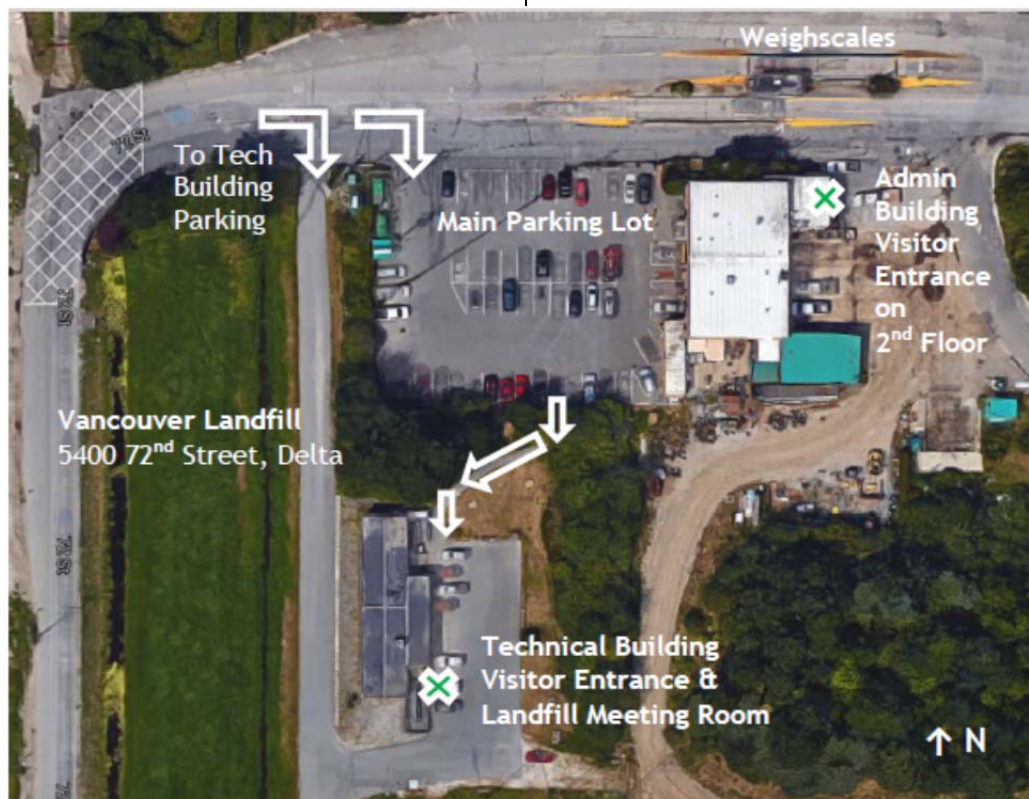
Hours: Mon to Fri, 7:00am – 3:30pm.

Technical Trailer Office

Location: south of main parking lot and Administration Building. Office entrance at south end of building.

Tel: **604.606.2700**

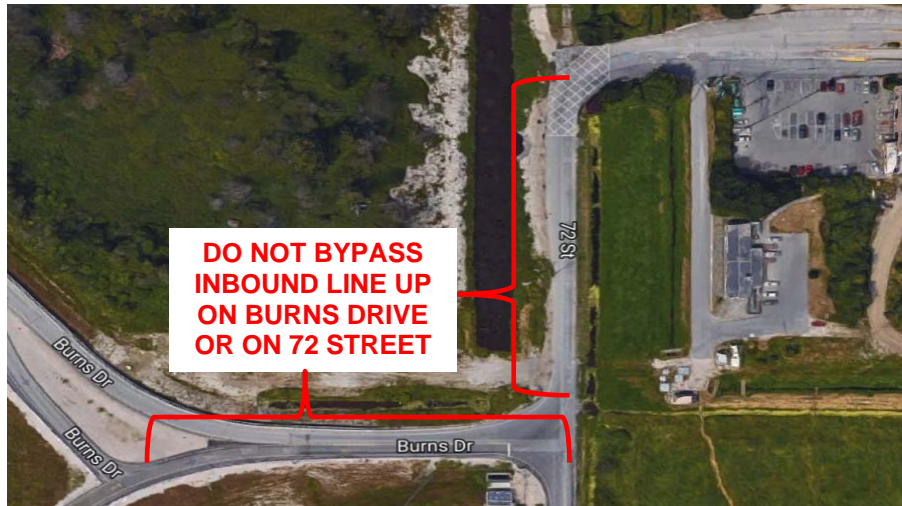
Hours: Mon to Fri, 7:30am – 4:00pm.



- **After hours sign in/out:** The Administration Office closes by 3:30 pm. The Technical Trailer Building closes by 4:00 pm. The main gate closes at 6:00 pm.
- If you will be on site after the offices or the gate closes, inform your Site Contact and indicate on the sign in sheet what your expected time out will be.
- Sign out in person or by phone according to your Sign out Time as listed in the table:

Sign In Location	Sign Out In Person	Sign Out By Phone
Did you sign in at the Administration Building?	Then sign out in person at the Administration Building before 3:30 pm	Or sign out by phoning 604.606.2710
Did you sign in at the Technical Trailer Building?	Then sign out in person at the Technical Trailer before 4:00 pm	
Still at the Vancouver Landfill between 4:00 pm and 6:00 pm?	Sign out at the Weighscales	Or sign out by phoning 604.506.3159 (Sub Foreman)
On site after 6:00 pm?		Phone 604.506.3159 (Sub Foreman)

VEHICLE ACCESS TO & OPERATION WITHIN THE LANDFILL



- Rules for vehicles entering the Vancouver Landfill
 - Vehicles authorized to by-pass the scales
 - Some vendors and City of Vancouver vehicles have been authorized to by-pass the scales and therefore are permitted to by-pass the vehicle line up on 72nd street. **ONLY VEHICLES WITH AUTHORIZATION MAY BY-PASS.**
 - Vehicles not authorized to by-pass
 - When entering the site from along Burns Drive and 72nd street, vehicles may not pass the inbound line-up during operating hours, **unless traffic control persons are actively managing traffic and the traffic control person gives you a clear direction to by-pass.** If no traffic control persons are present, then unauthorized vehicles must wait in line.

- If a traffic control person is present, vehicles may signal to traffic control persons that they would like to bypass by putting on their 4-way flashers. Do not proceed until the traffic control person notes your flashers and gives you clear instruction to bypass.
- All drivers/operators must observe traffic control measures (i.e., stop signs, no stopping road markings, speed signs, warning signs and cones).
- The speed limit on the Landfill premises is **30 km/h, and 15 km/h adjacent to the scales.**
- Seatbelts must be worn at all times while vehicles are in motion, no exception.
- **MANDATORY VEHICLE BACKUP RULE** – Before backing any type vehicle, the vehicle operator must check the rear of the vehicle to ensure no persons or obstructions will be hit by the backing vehicle. Vehicle operators will **HONK THE HORN TWICE** before backing the vehicle.
- To prevent exhaust fumes from entering the scalehouse, all vehicles must turn off their engines when sitting at the weighmaster window on the scales.

DISTRACTED DRIVING

- The use of cellular phones while operating vehicles or equipment is prohibited by City policy and the BC Motor Vehicle Act unless in a Province-approved hands-free mode. Always move to a safe place out of the way of any equipment or vehicles prior to using a cellular phone or engaging in any other non-mobile activity.
- The use of listening devices with headphones (such as music players) is prohibited while on site by City policy.
- The Vancouver Landfill has many persons on the ground and vehicles moving in close proximity to each other. A distracted driver is considered a **HIGH RISK** to both vehicles and persons on the ground. **Distracted drivers will be asked to leave the site and will not be permitted access without written permission from the Landfill Manager or designate.**

SMOKING

- Smoking is only permitted in the designated smoking location on the south west corner of the Administration building parking lot. Smokers will find a covered area at this location.
- Smoking is **not permitted** at any other location within the Landfill.



CITY OF VANCOUVER ALCOHOL, CONTROLLED DRUGS & MEDICATIONS POLICY

- The City of Vancouver Alcohol, Controlled Drug and Medications Policy applies to all City employees, volunteers and contractors performing work on behalf of the City.
- The City of Vancouver (the “City”), and those who perform services on its behalf, have a shared responsibility to maintain a safe and healthy work environment. The use of Alcohol, Controlled Drugs and Medications can have a serious adverse effect on the health, safety and productivity of City employees, on contract employees, on the work environment and the public.
- Policy Rules:
 - To not cultivate, manufacture, distribute, offer or sell Controlled Drugs while at work or on break, or while operating a vehicle.
 - To not possess a Controlled Drug while at work or on a break, while attending at City premises, or while operating a vehicle, unless the Controlled Drug is legally in the possession of the employee, volunteer, or contractor; and the Controlled Drug is contained in its original, sealed and unopened packaging.
 - To not possess open Alcohol while at work or on break, while attending at City premises, or while operating a vehicle.
 - To not distribute, offer or sell Medication for which a prescription is required while at work or on break, while attending at City premises, or while operating a vehicle.
 - To abstain from use of Alcohol, Medication or Controlled Drugs prior to commencing work in a manner that could render them unfit to perform their duties safely and efficiently.
 - To abstain from use of Alcohol and Controlled Drugs while at work or on break, while attending at City premises, or while operating a vehicle.
 - To act responsibly with regard to the use of Medication, whether over-the-counter or prescribed by a physician, to prevent adverse effects on work performance.

SCAVENGING

- Scavenging is prohibited anywhere in the Landfill. Scavenging is the search for and collection of anything from discarded waste.

CONED OFF, SIGNED AREAS, ASBESTOS DEPOSITS

- Be aware of and stay clear of coned-off areas; these are closed to protect you from hazards.
- Be aware that asbestos is routinely managed at the Landfill. Asbestos is required to be double bagged and poses no harm if the bags are not disturbed. Asbestos is disposed of within areas posted with asbestos signs or wording.

WORKSAFEBC COMPLIANCE

- Comply with WorkSafeBC regulations when entering any confined space, depression, or potentially poorly ventilated areas.

IV. FIRST AID ATTENDANT – CALL **604.603.1655** (PLEASE WRITE THIS NUMBER DOWN)

- All injuries, even minor injuries, are to be reported to the first aid attendant and your Site Contact. The first aid room is located at the southeast corner of the Landfill Administration building. (Location noted on the following page picture)
- Notify the designated First Aid Attendant at **604.603.1655** (VL First Aid Cell Phone). If no answer, contact the Landfill Office at **604.606.2700** to alert the First Aid Attendant.

EMERGENCY REQUIRING AN AMBULANCE

- For injuries requiring an ambulance call 911 immediately, then inform the Landfill First Aid Attendant and your Site Contact (dial “9” first from land lines).

V. IN THE EVENT OF AN EMERGENCY

- Report any fires, spills, accidents or other emergencies to the Landfill Office immediately. In the event of an emergency that requires outside response, call 911 immediately and then inform the Landfill Office at **604.606.2700** and your Site Contact.
- The Landfill Manager or designate is responsible for contacting additional authorities as required.
- For detailed information, refer to the Vancouver Landfill Emergency Response Plan.

SAFETY DURING AN EMERGENCY

- In an emergency, your first priority is to warn others and evacuate the immediate area. Do not put yourself in danger.
- If not directly and helpfully involved, report to the **Emergency Muster Station** in the north end of the employee parking lot near the entrance to the Administration Building.



- Do not return to the site until instructed that it is safe.
- During an emergency muster, you must be present for a head count. Do not leave the Vancouver Landfill until you are directed to do so.
- If the emergency involves chemical products or materials, Material Safety Data Sheets for materials used on site are located in Superintendent's office and are available online at the Vancouver Citywire website. Ask your Site Contact to assist with accessing MSDS information.
- Materials brought onto site by contractors/other City branch workers require MSDS sheets.

VI. HEALTH AND SAFETY CONCERNS

- If you have any health or safety concerns, please discuss them with your Site Contact.

VII. INCIDENT REPORTING

- **Incident Definition:** An accident or other occurrence, which resulted in, or had the potential for causing an injury or occupational disease. Incidents may include near misses, minor injuries, medical aid treatments, doctor visits, and/or injuries resulting in lost time accidents (*e.g. structural and equipment failures*).
- **Near-Miss Definition:** Incident without injuries but with potential to cause a serious injury; an event which had strong potential to be an injury that required medical aid, time loss or fatality, however did not result in an injury to an employee. A near miss can be loosely defined as a "close call" or a "near hit". Near misses may include property/equipment damage.
- ❖ The above incidents must be reported to your Site Contact immediately without delay. All injuries shall be managed in accordance with VL Injury/Illness and First Aid procedures. If you are unable to get in touch with your Site Contact, report the incident to the Landfill Office at **604.606.2700**.

VIII. PERSONAL PROTECTIVE EQUIPMENT (PPE)

All PPE must meet WorkSafeBC requirements for workers accessing the Landfill. PPE is required in all locations outside the Main Parking Lot or the Technical Trailer Office parking lot.

1) The following are necessary on the site:

- Yellow Hi-visibility reflective vest or coveralls as per City of Vancouver requirements.
- Safety protective footwear (heavy-duty, above the ankle, construction-type safety boots with an external triangular green CSA patch). Boots should also be approved as shock-resistant when working on electrical systems (display an external white Ω CSA patch).
- Approved safety eyewear.
- Hearing protection at the Landfill Active Face, Residential Drop-Off Area, Demolition Area, Compost Facility, Flare Station or any area requiring hearing protection.
- Respirator with appropriate filtering cartridges or paper particulate mask as directed by the Site Contact or where mandatory wearing signs are located.

2) Also necessary where appropriate:

- Hard hat.
- Fall protection in situations where a fall of 3 metres (10 feet) or more could occur, or from a lesser height but which represents a higher risk of injury.
- Other specific equipment where determined necessary or by regulation for the particular situation or as directed by the Site Contact.

IX. HEAVY EQUIPMENT

There are many varieties of heavy equipment used at the Landfill. Due to their size and operating speed, heavy equipment operators have restricted visibility for person standing or walking on the ground. **FOR YOUR SAFETY, ALWAYS GIVE HEAVY EQUIPMENT A WIDE SAFETY ZONE.**

- Do not walk in the active tipping area of the Landfill.
- Do not move into the vicinity of any vehicle or mobile equipment until you have made eye contact with the operator/driver and ensured that he/she is aware of your presence.
- Remember that people are more mobile than equipment – it is your responsibility to stay out of the way. Do not, at any time, walk behind any vehicle or piece of heavy equipment.
- Remain outside of the swing radius of excavators, approximately 15 metres (50 feet), unless absolutely necessary. If entry is required within that radius, make eye contact and communicate with the operator so they are aware of your location.
- In the demolition dumping area, maintain a safe distance between trucks (one truck and trailer length or 75 feet/23 meters). End dump style demolition trucks pose an extreme hazard of tipping over on their side when the box is lifted.
- All heavy equipment must be turned off before fuelling.

X. LANDFILL GAS HAZARDS

Landfill gas is produced by underground waste deposits and exists within the Landfill and in gas collection system piping and equipment. Gases can collect in confined spaces, depressions, and poorly ventilated areas.

- Never enter a signed/marked confined space without prior approval from your Site Contact. All manholes within the Landfill are classified as confined spaces due to potential presence of landfill gases.
- Do not access the fenced enclosure at the Flare Station or conduct any work around the landfill gas system without prior approval from your Site Contact.
- Do not alter any component of the landfill gas collection system without prior authority from the Landfill Manager or designate.
- Use extreme caution when operating vehicles or equipment or when walking near landfill gas collection systems. The system is under 100 PSI and can cause significant damage or injury if released.

- If possible, stand upwind of wells or any other landfill gas works. If an accidental or uncontrolled release of landfill gas is believed to have occurred near your work area, attempt to remove yourself from the area by taking a path that is crosswind from the source and attempt to get upwind if it is determined to be safe to do so. Immediately notify the Landfill Manager or your Site Contact.
- If a hydrogen sulphide (rotten eggs) odour is detected remove yourself from the area and notify the Landfill Manager or Site Contact.
- More information about Landfill Gas is available upon request from your Site Contact.

XI. LANDFILL FIRES

Decomposition of the wood waste will create chemical reactions which form gases and heat. If air is introduced into the mix, a spontaneous combustion fire can occur. Fires within landfills are not uncommon and are managed by landfill staff following the established procedures and practices of gas and heat monitoring and the fire response plan.

STEAMERS - A steamer is a plume of hot gas that seeps out of the surface where solid waste is landfilled. The following picture shows steamers rising from the landfill surface. If you observe this type of steam rising from the surface, immediately inform a Landfill employee or your Site Contact.

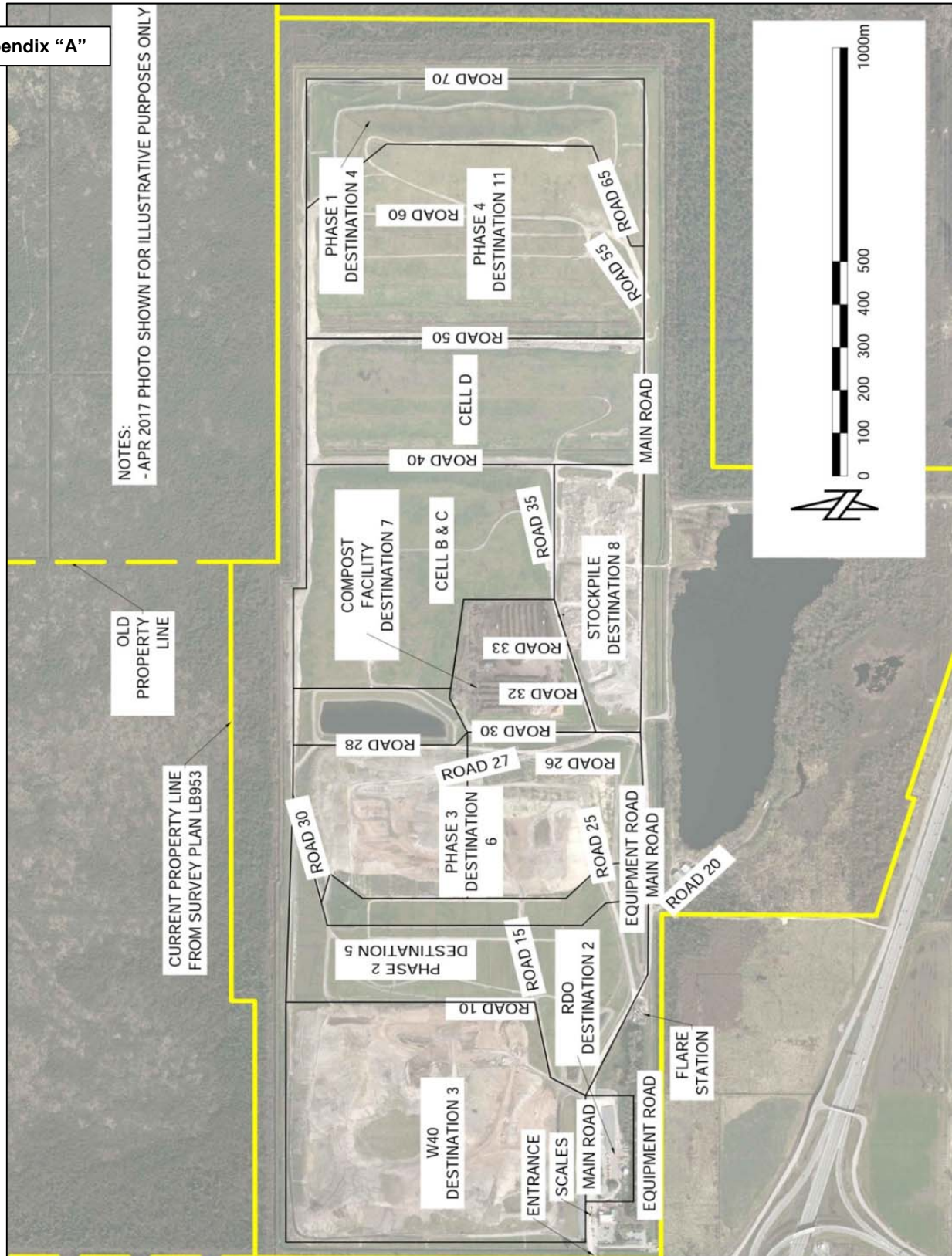
Do not approach the steam. The steam may be the result of an sub-surface fire which has the potential to produce toxic gases harmful to humans.



XII. WORKING ALONE

- Determine with your Site Contact whether your work is considered working alone. Each time you access the Vancouver Landfill and when you will be working alone, you must tell your Site Contact where you will be located while working alone.
- Persons working alone must receive adequate training from their employer or home branch before being permitted to work alone at the Vancouver Landfill. You must follow your employers working alone procedures, including any check in's required by that procedure.
- Persons working alone must sign in and out at the Landfill Administration office and advise reception staff they will be working alone.

Appendix "A"



PART TWO – EQUIPMENT SERVICES (EQS) LANDFILL GARAGE

SAFETY ORIENTATION

This section is to be used in conjunction with the Site Safety Orientation and Agreement that is in place at the Vancouver Landfill (VL). This applies to all persons working at the Landfill and includes contractors hired by Equipment Services (EQS) to perform work on site. Each person must receive the complete VL orientation prior to work commencing, paying special attention to the sections that are most pertinent to the work they will be performing. All applicable WSBC rules are in effect while working in or around the garage as well as all other areas operated by Transfer and Landfill Operations.

I. GENERAL SAFETY ISSUES:

The garage has hazards that are common to most vehicle / equipment repair facilities and they include, but are not limited to:

- Open vehicle repair pits
- Overhead hazards associated with the use of a bridge crane
- Hazards associated with the use of compressed air
- Hazards associated with the use of compressed gases (oxygen / acetylene)
- Various oils, solvents and other chemicals
- Slip and trip hazards
- Congested work areas
- Hazards associated with the movement of large industrial machines and their parts
- Exposure to contaminants that are found at the Landfill

II. PERSONAL PROTECTIVE EQUIPMENT (PPE)

All PPE must meet WSBC and City of Vancouver requirements and must be used in accordance with the manufacturer's instructions. The required PPE necessary for working in the Equipment Services Garage is as follows:

- High visibility coveralls or vest
- Safety footwear (above the ankle CSA green triangle and Q symbol)
- Approved safety eyewear
- Hearing protection as required in the garage and outside as per the Vancouver Landfill requirements

Also necessary where appropriate:

- Respirator
- Hard hat
- Bump cap
- Dust mask
- Gloves (choose protection relative to the hazard)

III. WORKING ALONE AT THE EQS SHOP

EQS staff will be signing on to "SafetyLine Mobile Worker Monitoring System" through the Equipment Services procedure. Contractors will be required to stay with EQS / TLO staff OR log into the existing SafetyLine system in place with the Vancouver Landfill.

IV. IN THE EVENT OF AN EMERGENCY AT THE EQS SHOP

Respond as per the TLO orientation and be sure that any contractors on site are accounted for and kept under the care of EQS or TLO staff until authorized to be released.

V. FIRST AID AT THE EQS SHOP

The TLO procedures for receiving first aid are to be followed. All injuries are to be reported to the first aid attendant and the worker's immediate supervisor.



Engineering Services - VL Safe Operating Procedure

SAFETY ORIENTATION AGREEMENT for CONTRACTORS and VENDORS

LEGAL TERMS AND CONDITIONS

- You agree that entry to and use of the Site is at your own risk and that neither the City of Vancouver, nor its employees or agents will be liable for any loss or injury to person or property whether or not caused by negligence.
- You agree to comply at all times with the above requirements and to follow the instructions of the Landfill Manager, or designate, and/or the First Aid Attendant at all times.
- You agree to reimburse the City of Vancouver for any and all costs, losses and damage which may be caused by your failure to carry out safe working practices while on the site or to otherwise comply with this Site Safety Orientation/Agreement.
- The terms of this Site Safety Orientation/Agreement are additional to, and not in replacement of any other agreement between you and the City of Vancouver. However, in the event of any inconsistency between the two, this agreement prevails.

NOTE: Complete this sign off if you are not a City of Vancouver employee

STATEMENT OF RESPONSIBILITY

Name

Company &
Nature of Work

Cell Phone

I certify that I have read, understood and agree to comply with and be bound by this Site Safety Orientation/Agreement.

Signature

Date

CITY OF VANCOUVER EMPLOYEES

*** Enter name if you are a City of Vancouver employee (no signature is required)

The following City of Vancouver employee has been provided the Site Safety Orientation.

Name of CoV Employee (Please print)

Branch

Office use only - Orientation Provided By

Name & Title

Company/Branch/Date

DISTRIBUTION: Detach page 14 and give to the Office Support Clerk for data entry.
Pages 1 to 13 may be given to the person receiving the orientation for their use.

SCHEDULE 13
LANDFILL GAS SAFE WORK CONTROL PROCEDURES

(intentionally deleted)

**SCHEDULE 14
RECORD DRAWING STANDARDS**

Record Drawings Standards

The record drawings must accurately show any wires, pipes, geomembranes, and other features and shall include:

- AutoCAD file(s) and printable PDF.
- Marked up version of the full size IFC set.

The coordinate system must be NAD83UTM10-meters for both survey pickup and for drawings. The records should note the construction date for individual pay items. The actual survey pickup must be given as a .CSV file and it must include this information:

- Point number in following format:
 - 201805150001 representing the time of the survey 2018-05-15 followed by the point number 0001
- Northing
- Easting
- Elevation
- Description, where the description must include:
 - For horizontal pipe, conduit or wire:
 - Specify whether it is a pipe, conduit or wire
 - Whether the top of pipe or the invert has been picked up
 - Diameter (for non-circular members, the shape should be measured and specified)
 - Colour
 - Material
 - Slotted, perforated, corrugated or solid pipe
 - Picture name (if a picture has been taken)
 - Any other observations taken by the surveyor
 - For vertical pole, pipe, conduit or wire:
 - Specify whether it is a pole, pipe, conduit or wire
 - Whether the center, north quadrant, east quadrant, west quadrant or south quadrant of pipe has been picked up
 - Diameter (for non circular members, the shape should be measured and specified)
 - Colour
 - Material
 - Slotted, perforated, corrugated or solid pipe
 - Picture name (if a picture has been taken)
 - Any other observations taken by the surveyor
 - For geosynthetics:
 - Specify if it is a geomembrane, geotextile, GCL or other
 - Colour
 - Picture name (if a picture has been taken)
 - Any other observations taken by the surveyor
 - For others:
 - Clearly describe the feature (i.e. manhole center, 30" diameter, concrete, see picture P20180619.jpg)

The frequency of topographic survey must be at a minimum every 10 m on a regular grid and at 5 m spacing on the perimeter of the survey area. As-built surveys for pipelines and other linear features shall be at 3 m intervals (every 10 ft.). The pick-up location shall be the top-of-pipe. In addition, more survey points must be picked up if there is any change in properties, for example:

- Bend
- Diameter, thickness, etc
- Tee, cross, valve, etc
- Slotted, perforated, etc

The record drawings must:

- Reference the survey files
- Not rely on scale (only dimensions, coordinates, and survey point references must be relied on)
- Specify key points (i.e. end points of pipes, bends in pipes, features, etc; it is acceptable to have a leader and reference a point number, key points should be to scale (i.e. be at correct electronic locations))
- Allow the reader to be able to locate all features to within 150mm (or better if deemed necessary) in the field (i.e. survey pickup should be accurate to within 50mm (or better if deemed necessary), but not all survey points need to be put on the drawings especially in the case of long straight runs of pipes, just the most important ones).
- Before construction begins, the Contractor shall provide for Engineer's approval, a list with naming conventions and abbreviations used for survey point description.

The raw drawings shall be provided to the Engineer in AutoCAD and as PDF files in addition to the printed sealed ones.

Copies of the as-built drawings should be given to the Engineer

SCHEDULE 15
SUBMITTAL FORM TEMPLATE



SUBMITTAL REVIEW FORM

TO _____
DATE: _____
RE: _____

SUBMITTAL NO.: _____
REVISION NO. _____

COPIES	DATE	SPEC.	DRAWING	DESCRIPTION

SUBMITTAL REVIEW CHECKLIST:

<input type="checkbox"/> NO EXCEPTIONS NOTED <input type="checkbox"/> MAKE CORRECTIONS NOTED <input type="checkbox"/> REJECTED <input type="checkbox"/> REVISE AND RESUBMIT <input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> NOT REQUIRED FOR REVIEW	Review is for general compliance with contract documents. The City of Vancouver or its Engineers assume no responsibility for correctness of dimensions, details, field verifications, fabrication processes, or techniques of construction. Contractor or Supplier is responsible for coordination of work with that of all other trades.
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REMARKS:

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COPY TO _____

SIGNED _____

SCHEDULE 16
MATERIAL DISCLOSURE

Intentionally deleted.

SCHEDULE 17

Intentionally deleted.

Intentionally deleted.

SCHEDULE 19
CONTRACTOR SAFETY ABSOLUTES

A. Forbidden Actions:

- Walking under suspended loads.
- Working or driving while under the influence of alcohol or drugs.
- Entering a confined space without first using a gas monitor to test the atmosphere.
- Entering a trench/hole over 4 feet (1.3 meters) without shoring or other engineered systems/procedures.
- Driving and talking/texting on a mobile phone/device, unless using hands free.
- Smoking in non-designated areas or within 20 feet (6 meters) of co-workers or in City vehicles/equipment.

B. Mandatory Actions:

1. Wearing a safety belt when provided in vehicle.
2. Vancouver Landfill Speed Limit:
 - Drive within the 15 km/h speed limit in the area of the scalehouse, Residential Drop Off, and administration/shop buildings and 5 km/h speed limit within parking lots.
 - Driver within the 30 km/h speed limit within all other areas of the landfill.
3. Vancouver South Transfer Station Speed Limit:
 - Drive within the 5 km/h speed limit in all areas of the Vancouver South Transfer Station.
4. Wearing the following personal protective equipment is a mandatory requirement for all areas of the Vancouver Landfill and Vancouver South Transfer Station with the only exception of the public parking areas.

The three mandatory PPE are:

1. Eye safety protection “**at all times**”.
2. Reflective safety vests.
3. CSA approved safety footwear.
4. When working on the tipping floor for greater than a total of 30 minutes in an 8 hour shift at the Vancouver South Transfer Station a minimum requirement of a half face respirator with organic vapour P100 cartridges.

Additional PPE:

5. Hearing protection must be worn where required to protect against noise.
6. Hard hats or bump caps when required by the task being completed. (Note: Mandatory hard hat use may be directed by a contractor’s Health and Safety Program)
5. Locking out hazardous energy sources before starting work on equipment/machinery.
6. Using fall protection when working at heights over 10 feet (3 meters).

7. Any ground disturbance must not be undertaken without approval from TLO management. All ground disturbances must be planned, including the use of locates. The plan will include the use of a spotter and all underground facilities/utilities will be exposed at suitable intervals by hand or hydrovac and identified for size and alignment prior to mechanical excavation.
8. When ground disturbance unearths an unknown material or material which may potentially contain asbestos, all work must be stopped and IMMEDIATELY reported to TLO management so that containment and abatement can be planned.

Procedure for Inadvertent Utility Strike

WorkSafeBC considers utility strikes as potential “major release of hazardous substance”. Below is the current City of Vancouver practice related to utility strikes:

- The contractor striking utility “live or not” must immediately stop work and report to their Transfer & Landfill Operations (TLO) contact.
- TLO in consultation with the contractor and the City of Vancouver Operations Support and Safety Branch (OSSB) will determine if the strike falls under WorkSafeBC definition of “major release of a hazardous substance”. TLO and OSSB will determine if a report will be submitted to WorkSafe by the contractor or by TLO.

C. Flash Reporting:

1. The Flash Report is to be used as a tool to communicate via email that an incident or event is occurring and what immediate preventative measures being taken at the scene. IT IS NOT AN INCIDENT INVESTIGATION, ONLY A NOTIFICATION OF INCIDENT. The email must be sent out as quickly as possible, even if the full incident information is not known.
2. The intent of Flash Reporting is to provide members of a dedicated email distribution list a brief notification of a significant, serious or extreme event. The standardized format of communicating and gathering information gives all readers the information they require in a timely manner for potential escalation of details and/or interaction with external stakeholders.

Flash Report Levels & Definitions

Significant

- any near miss that we wouldn't attempt to apply “serious” to (may include property damage)
- any injury that requires a trip to hospital
- any utility strike **WITHOUT** hazardous substance release (electrical power of any sort is considered a hazardous substance)
- any event where a member of the public is involved (without injuries)

Serious

- call to 9-1-1 to help control or respond to the scene of an incident
- person(s) transported by ambulance

Contractor SAFETY ABSOLUTES

- any incidents or events where member of the public was injured or experienced property damage
- assault or serious threats of violence to employee
- any utility strike **WITH** hazardous substance release (electrical power of any sort is considered a substance)
- work refusals
- vehicle event resulting in serious injury to employee
- contact with or wires down low voltage or underground utilities
- environmental release requiring moderate/major clean-up
- damage to equipment resulting in spill requiring moderate/major clean-up
- any event causing an evacuation
- any incident that is immediately reportable to a regulating body
- any visit from a WorkSafeBC Inspector

Extreme

- injury to employee or member of the public that results in significant/permanent disability or death
- any employee seriously injured or killed including employee that requires immediate surgical intervention
- major structural failure or collapse including crane, hoist, scaffolding
- any major release of hazardous substance
- injury to employee that requires immediate surgical intervention
- contact with high voltage wires
- any event with irreparable/significant damage to environment, including equipment failures
- collapse of excavation
- any event involving fire or explosion

Flash Report Email Format

The email message format shall contain the following information:

To: lynn.belanger@vancouver.ca, chris.dodd@vancouver.ca, calvin.lum@vancouver.ca, ken.fraser@vancouver.ca, rob.weiss@vancouver.ca, don.darrach@vancouver.ca, jerry.sobejko@vancouver.ca, brennan.sharma@vancouver.ca (TLO Project Managers - to be determined) (plus any contract company person you wish to include)

Subject Line of Email: Flash report Level (Choose Significant, Serious or Extreme) - Title of Event

The body of the email shall include:

- Event description (very brief - rule of thumb 25 words or less) stating:
 - incident time
 - site location
 - no injury or injury with brief description
 - no damage or damage with brief description.
- Immediate Preventative Measures implemented and who is accountable
- Stakeholders called to scene (Emergency Services, Risk Management, Utility Owner)
- Public impacted Y/N and how
- Date of next update
- Contact name and number for person who can provide further information if needed

The following is an example of a Flash Report email.

To: lynn.belanger@vancouver.ca, chris.dodd@vancouver.ca, calvin.lum@vancouver.ca, amrti.pangli@vancouver.ca, ken.fraser@vancouver.ca, rob.weiss@vancouver.ca, jerry.sobejko@vancouver.ca, (TLO Project Managers – to be determined) (plus any contract company person you wish to include)

Subject: Flash Report - Significant - Existing Fibrous Conduit Exposed

Location: Transfer Station Rebuild Project
Date/ Time: Friday, 24 Mar 2017/5:00 pm
Type: Existing Fibrous Conduit Exposed at the new Recycling Area Project
Injury Type: None

Description: Super Big Construction Company exposed fibrous conduit during the process of excavation at the Transfer Station Recycling/Green Waste area. Super Big employees cordoned off the area with fencing to restrict access. CoV Environmental Services were contacted and instructed Super Big to ensure conduit was not disturbed. Environmental Services will attend on Monday, 27 March 2017 to sample the conduit for testing. Environmental Services is satisfied that no risk of exposure will occur for the public or workers.

Immediate Preventative Measures: Stopped work and removed workers from area. Cordoned off the area with fencing.

Stakeholders Involved: Super Big Construction Company, CoV employees

Public Impact: None

Next Planned Update: Monday, 27 Mar 2017

John Super Big, Owner
Super Big Construction Company
604-020-0202

If you have any questions about the use of the Flash Report, please contact:
Rob Weiss, TLO OHS Superintendent, 604-318-9039

Contractor SAFETY ABSOLUTES

D. Health & Safety Reporting

A contractor may use this template or their own reporting format which will include the following information on a minimum bi-weekly basis to TLO management.

Contractor				
Number of Sub Contractors				
Project				
Project Number				
Reporting Dates				
Year				
INJURY LAG INDICATORS				
Report Item	Contractor	Sub-Contractor	Total for Reporting Dates	Ongoing Project Total
Work hours	0	0	0	0
Number of Fatalities	0	0	0	0
Number of Lost Time Injury	0	0	0	0
Number of Medical Treatment	0	0	0	0
Number of First Aid Only	0	0	0	0
Number of Modified Duty	0	0	0	0
OTHER LAG INDICATORS				
Near Miss - potential for injury	0	0	0	0
WSBC Reportable Occurrence	0	0	0	0
Non-Occupational Incident	0	0	0	0
Environmental Incidents	0	0	0	0
Property Damage	0	0	0	0
Motor Vehicle Damage	0	0	0	0
Equipment Damage	0	0	0	0
Fire	0	0	0	0
Theft	0	0	0	0
Utility strike	0	0	0	0
LEAD INDICATORS				
Formal Inspections Completed	0	0	0	0
Crew Safety Talks Completed	0	0	0	0
Employee Orientations Completed	0	0	0	0
Incident Investigations Signed off by JHSC & Contractor Mgt	0	0	0	0
Ground Disturbance Permits Issued	0	0	0	0
Hot Work Permits Issued	0	0	0	0
Confined Space Permits Issued	0	0	0	0