

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
**Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada**
800 Burrard Street, 2nd floor
800, rue Burrard, 2e étage
Vancouver
British Columbia
V6Z 0B9
Bid Fax: (604) 775-9381

INVITATION TO TENDER
APPEL D'OFFRES

**Tender To: Public Works and Government Services
Canada**

We hereby offer to sell to Her Majesty the Queen in right of
Canada, in accordance with the terms and conditions set
out herein, referred to herein or attached hereto, the goods,
services, and construction listed herein and on any attached
sheets at the price(s) set out therefor.

**Soumission aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la
Reine du chef du Canada, aux conditions énoncées ou
incluses par référence dans la présente et aux annexes
ci-jointes, les biens, services et construction énumérés
ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address
**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution
Public Works and Government Services Canada -
Pacific Region
800 Burrard Street, 12th floor
800, rue Burrard, 12e étage
Vancouver
British C
V6Z 0B9

Title - Sujet Lower Post Soil Removal & Disposal	
Solicitation No. - N° de l'invitation EZ899-141970/A	Date 2013-12-05
Client Reference No. - N° de référence du client	GETS Ref. No. - N° de réf. de SEAG PW-\$PWY-026-7154
File No. - N° de dossier PWY-3-36246 (026)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-12-23	
Time Zone Fuseau horaire Pacific Standard Time PST	
F.O.B. - F.A.B.	
Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Liu (PWY), Patty	Buyer Id - Id de l'acheteur pwy026
Telephone No. - N° de téléphone (604) 775-6227 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: AADNC - Lower Post, BC	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée See Herein	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

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INVITATION TO TENDER

IMPORTANT NOTICE TO BIDDERS

"This procurement has been set aside under the federal government's Procurement Strategy for Aboriginal Business (PSAB). In order to be considered, a supplier must certify that it qualifies as an Aboriginal business as defined under PSAB and that it will comply with all requirements of PSAB."

INSURANCE TERMS

The Insurance Terms have been amended. Refer to the Supplementary Conditions.

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R2710T GENERAL INSTRUCTIONS TO BIDDERS (GI) (2013-06-27)

The following GI's are included by reference and are available at the following Web Site

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R>

GI01	Code of Conduct and Certification - Bid
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APPENDIX 1 - COMBINED PRICE FORM

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THE BIDDER**

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SPECIAL INSTRUCTIONS TO BIDDERS (SI)

SI01 CODE OF CONDUCT AND CERTIFICATIONS - RELATED DOCUMENTATION

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions R2710T (2013-06-27). The related documentation therein required will assist Canada in confirming that the certifications are true.

SI02 BID DOCUMENTS

1. The following are the bid documents:

- a. Invitation to Tender - Page 1;
- b. Special Instructions to Bidders;
- c. General Instructions to Bidders [R2710T] (2013-06-27);
- d. Clauses & Conditions identified in "Contract Documents";
- e. Drawings and Specifications;
- f. Bid and Acceptance Form and related Appendice(s); and
- g. Any amendment issued prior to solicitation closing.

Submission of a bid constitutes acknowledgement that the Bidder has read and agrees to be bound by these documents.

2. General Instructions to Bidders is incorporated by reference and is set out in the Standard Acquisition Clauses and Conditions (SACC) Manual, issued by Public Works and Government Services Canada (PWGSC). The SACC Manual is available on the PWGSC Web site:

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>

SI03 ENQUIRIES DURING THE SOLICITATION PERIOD

1. Enquiries regarding this bid must be submitted in writing to the Contracting Officer named on the Invitation to Tender - Page 1 as early as possible within the solicitation period. Except for the approval of alternative materials as described in GI15 of R2710T "General Instructions to Bidders", enquiries should be received no later than three (3) calendar days prior to the date set for solicitation closing to allow sufficient time to provide a response. Enquiries received after that time may not result in an answer being provided.
2. To ensure consistency and quality of the information provided to Bidders, the Contracting Officer shall examine the content of the enquiry and shall decide whether or not to issue an amendment.
3. All enquiries and other communications related to this bid sent throughout the solicitation period are to be directed ONLY to the Contracting Officer named on the Invitation to Tender - Page 1. Failure to comply with this requirement may result in the bid being declared non-responsive.

SI04 REVISION OF BID

A bid may be revised by letter or facsimile in accordance with GI10 of R2710T "General Instructions to Bidders". The facsimile number for receipt of revisions is (604)775-9381.

SI05 SITE VISIT

n/a

SI06 BID RESULTS

1. A public bid opening will be held in the office designated on the Front Page "Invitation to Tender" for the receipt of bids shortly after the time set for solicitation closing.
2. Following solicitation closing, bid results may be obtained by calling No. (604) 775-9384.

SI07 INSUFFICIENT FUNDING

In the event that the lowest compliant bid exceeds the amount of funding allocated for the Work, Canada in its sole discretion may

- a. cancel the solicitation; or
- b. obtain additional funding and award the Contract to the Bidder submitting the lowest compliant bid
- c. negotiate a reduction in the bid price and/or scope of work with the Bidder submitting the lowest compliant bid. Should an agreement satisfactory to Canada not be reached, Canada shall exercise option (a) or (b).

SI08 BID VALIDITY PERIOD

1. Canada reserves the right to seek an extension to the bid validity period prescribed in BA04 of the Bid and Acceptance Form. Upon notification in writing from Canada, Bidders shall have the option to either accept or reject the proposed extension.
2. If the extension referred to in paragraph 1. of SI08 is accepted, in writing, by all those who submitted bids, then Canada shall continue immediately with the evaluation of the bids and its approvals processes.
3. If the extension referred to in paragraph 1. of SI08 is not accepted in writing by all those who submitted bids then Canada shall, at its sole discretion, either
 - a. continue to evaluate the bids of those who have accepted the proposed extension and seek the necessary approvals; or
 - b. cancel the invitation to tender.
4. The provisions expressed herein do not in any manner limit Canada's rights in law or under GI11 of R2710T "General Instructions to Bidders".

SI09 CONSTRUCTION DOCUMENTS

The successful Contractor will be provided with one paper copy of the sealed and signed drawings, the specifications and the amendments upon acceptance of the offer. Additional copies, up to a maximum of two (2), will be provided free of charge upon request by the Contractor. Obtaining more copies shall be the responsibility of the Contractor including costs.

SI10 PROCUREMENT STRATEGY FOR ABORIGINAL BUSINESS

1. This procurement has been set aside under the federal government's Procurement Strategy for Aboriginal Business (PSAB). In order to be considered, a supplier must certify that it qualifies as an Aboriginal business as defined under Requirements for the Set-aside Program for Aboriginal Business and attached as Appendix 2 to the Bid and Acceptance Form.
2. By executing the certification, the Bidder warrants that it is an Aboriginal business as defined in the Set-aside Program for Aboriginal Business.

"Failure to provide this certification completed with the bid will render the bid non-responsive."

ABORIGINAL BUSINESS CERTIFICATION - (A3000C) 2011-05-16

1. The Contractor warrants that its certification of compliance is accurate and complete and in accordance with the "Requirements for the Set-aside Program for Aboriginal Business" detailed in Annex 9.4 of the Supply Manual.
2. The Contractor must keep proper records and documentation relating to the accuracy of the certification provided to Canada. The Contractor must obtain the written consent of the Contracting Authority before disposing of any such records or documentation before the expiration of six (6) years after final payment under the Contract, or until settlement of all outstanding claims and disputes, under the Contract, whichever is later. All such records and documentation must at all times during the retention period be open to audit by the representatives of Canada, who may make copies and take extracts. The Contractor must provide all reasonably required facilities for any audits.
3. Nothing in this clause must be interpreted as limiting the rights and remedies which Canada may otherwise have pursuant to the Contract.

OWNER/EMPLOYEE CERTIFICATION - SET-ASIDE FOR ABORIGINAL BUSINESS (A3001T)

2011-05-16

For each procurement under the PSAB, suppliers will be required to provide, with their bid/offer/arrangement, a certification stating that they meet the definition of an Aboriginal business, according to the definition provided, on the date that the bid/offer/arrangement was submitted, and an undertaking that the business will continue to meet this definition throughout the life of the contract. Refer to the attached as Appendix 2 to the Bid and Acceptance Form.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after contract award. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

SET-ASIDE UNDER THE PROCUREMENT STRATEGY FOR ABORIGINAL BUSINESS A3002T - 2011-05-16

This procurement is set aside from the international trade agreements under the provision each has for set-asides for small and minority businesses.

S110 WEB SITES

The connection to some of the Web sites in the solicitation documents is established by the use of hyperlinks. The following is a list of the addresses of the Web sites:

Treasury Board Appendix L, Acceptable Bonding Companies

<http://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=14494§ion=text#appl>

Buy and Sell <https://www.achatsetventes-buyandsell.gc.ca/eng/welcome>

Canadian economic sanctions <http://www.international.gc.ca/sanctions/index.aspx?lang=eng>

Contractor Performance Evaluation Report (Form PWGSC-TPSGC 2913)

<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/2913.pdf>

Bid Bond (form PWGSC-TPSGC 504) <http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/504.pdf>

Performance Bond (form PWGSC-TPSGC 505)

<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/505.pdf>

Labour and Material Payment Bond (form PWGSC-TPSGC 506)

<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/506.pdf>

Standard Acquisition Clauses and Conditions (SACC) Manual

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>

Schedules of Wage Rates for Federal Construction Contracts

http://www.rhdcc-hrsdc.gc.ca/eng/labour/employment_standards/contracts/schedule/index.shtml

PWGSC, Industrial Security Services <Http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html>

PWGSC, Code of Conduct and Certifications

<Http://www.tpsgc-pwgsc.gc.ca/app-acq/cndt-cndct/index-eng.html>

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PWGSC Consent to a Criminal Record Verification (PWGSC-TPSGC 229)

[Http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/229.pdf](http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/229.pdf)

Construction and Consultant Services Contract Administration Forms Real Property Contracting

<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>

SUPPLEMENTARY CONDITIONS (SC)

SC01 INSURANCE TERMS

1 - R2900D GC10 - Insurance (2008-05-12)

GC10.1 (2008-05-12) Insurance Contracts

- (1) The contractor shall, at the contractor's expense, obtain and maintain insurance contracts in respect of the work and shall provide evidence thereof to Canada in accordance with the requirements of the "Insurance Terms".
- (2) The insurance contracts referred to in paragraph 1) of GC10.1 shall
 - (a) be in a form, of the nature, in the amounts, for the periods and containing the terms and conditions specified in "Insurance Terms"; and
 - (b) provide for the payment of claims under such insurance contracts in accordance with GC10.2, "Insurance Proceeds".

GC10.2 (2008-05-12) Insurance Proceeds

- (1) In the case of a claim payable under a Builders Risk/Installation (All Risks) insurance contract maintained by the contractor pursuant to GC10.1, "Insurance Contracts", the proceeds of the claim shall be paid directly to Canada, and
 - (a) the monies so paid shall be held by Canada for the purposes of the contract, or
 - (b) if Canada elects, shall be retained by Canada, in which event they vest in Canada absolutely.
- (2) In the case of a claim payable under a General Liability insurance contract maintained by the contractor pursuant to GC10.1, "Insurance Contracts", the proceeds of the claim shall be paid by the insurer directly to the claimant.
- (3) If an election is made pursuant to paragraph 1) of GC10.2, Canada may cause an audit to be made of the accounts of the contractor and of Canada in respect of the part of the work that was lost, damaged or destroyed for the purpose of establishing the difference, if any, between
 - (a) the aggregate of the amount of the loss or damage suffered or sustained by Canada, including any costs incurred in respect of the clearing and cleaning of the work and any other amount that is payable by the contractor to Canada under the contract, its site and minus any monies retained pursuant to subparagraph 1)(b) of GC10.2; and
 - (b) the aggregate of the amounts payable by Canada to the contractor pursuant to the contract up to the date of the loss or damage.
- (4) A difference that is established pursuant to paragraph 3 of GC10.2 shall be paid forthwith by the party who is determined by the audit to be the debtor to the party who is determined by the audit to be the creditor.
- (5) When payment of a deficiency has been made pursuant to paragraph 4) of GC10.2, all rights and obligations of Canada and the contractor under the contract shall, with respect only to the part of the work that was the subject of the audit referred to in paragraph 3 of GC10.2, be deemed to have been expended and discharged.

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- (6) If an election is not made pursuant to subparagraph 1)(b) of GC10.2, the contractor shall, subject to paragraph 7) of GC10.2, clear and clean the work and its site and restore and replace the part of the work that was lost, damaged or destroyed at the contractor's expense as if that part of the work had not yet been performed.
- (7) When the contractor clears and cleans the work and its site and restores and replaces the work referred to in paragraph 6) of GC10.2, Canada shall pay the contractor out of the monies referred to in paragraph 1) of GC10.2 so far as they will thereunto extend.
- (8) Subject to paragraph 7) of GC10.2, payment by Canada pursuant to paragraph 7) of GC10.2 shall be made in accordance with the contract but the amount of each payment shall be 100 percent of the amount claimed notwithstanding subparagraphs 3)(a) and 3)(b) of GC5.4, "Progress Payment".

2 - R2910D Insurance Terms (2008-12-12) IT1 and IT2

IT1 (2008-12-12) General

IT1.1 Proof of Insurance

- (1) Before commencement of the Work, and within thirty (30) days after acceptance of its bid, the Contractor shall deposit with Canada a Certificate of Insurance Form 357, available on Public Works and Government Services Canada Web site.
- (2) Upon request by Canada, the Contractor shall provide originals or certified true copies of all contracts of insurance maintained by the Contractor pursuant to the provisions contained herein.
- (3) The insurance policies shall be endorsed to provide Canada with not less than thirty (30) days notice in writing in advance of a cancellation of insurance or any reduction in coverage.

IT1.2 Payment of Deductible

- (1) The payment of monies up to the deductible amount made in satisfaction of a claim shall be borne by the Contractor.

IT2 (2008-05-12) Commercial General Liability

IT2.1 Scope of Policy

- (1) The insurance coverage provided shall not be less than that provided by IBC Form 2100, as amended from time to time, and shall have:
 - (a) an Each Occurrence Limit of not less than \$5,000,000;
 - (b) a Products/Completed Operations Aggregate Limit of not less than \$5,000,000; and
 - (c) a General Aggregate Limit of not be less than \$10,000,000 per policy year, if the policy is subject to such a limit.
- (2) The policy shall either include or be endorsed to include coverage for the following exposures or hazards if the Work is subject thereto:
 - (a) Blasting.
 - (b) Pile driving and caisson work.
 - (c) Underpinning.
 - (d) Removal or weakening of support of any building or land whether such support be natural or otherwise if the work is performed by the insured contractor.

IT2.2 Insured

(1) The policy shall insure the Contractor and shall include Her Majesty the Queen in right of Canada, represented by the Minister of Public Works and Government Services Canada as an additional Insured, with respect to liability arising out of the operations of the contractor with regard to the work.

IT2.3 Period of Insurance

(1) Unless otherwise directed in writing by Canada, or, otherwise stipulated elsewhere herein, the policy required herein shall be in force and be maintained from the date of contract award until the day of issue of the Certificate of Completion except that the coverage for Completed Operations Liability shall, in any event, be maintained for a period of at least six (6) years beyond the date of the Certificate of Substantial Performance.

3 - G1001C Insurance Requirements (2008-05-12)

The Contractor must comply with the insurance requirements specified in SC01 Insurance Terms. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

4 - G2040C Environmental Impairment Liability Insurance (2008-05-12) (a),(b),(c),(d).

Type 1: "Pollution Legal Liability - Fixed Site Coverage"

The Contractor must obtain Type 1: "Pollution Legal Liability - Fixed Site Coverage" insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$1,000,000 per accident or occurrence and in the annual aggregate.

If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.

The Type 1: "Pollution Legal Liability - Fixed Site Coverage" policy must include the following:

(a) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada as additional insured should read as follows: Canada, represented by Public Works and Government Services Canada.

(b) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.

(c) Separation of Insureds: The policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.

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(d) Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.

SC02 PROCUREMENT STRATEGY FOR ABORIGINAL BUSINESS**Aboriginal Business Certification - A3000C**

1. The Contractor warrants that its certification of compliance is accurate and complete and in accordance with the "Requirements for the Set-aside Program for Aboriginal Business" detailed in Annex 9.4 of the Supply Manual.
2. The Contractor must keep proper records and documentation relating to the accuracy of the certification provided to Canada. The Contractor must obtain the written consent of the Contracting Authority before disposing of any such records or documentation before the expiration of six (6) years after final payment under the Contract, or until settlement of all outstanding claims and disputes, under the Contract, whichever is later. All such records and documentation must at all times during the retention period be open to audit by the representatives of Canada, who may make copies and take extracts. The Contractor must provide all reasonably required facilities for any audits.
3. Nothing in this clause must be interpreted as limiting the rights and remedies which Canada may otherwise have pursuant to the Contract.

CONTRACT DOCUMENTS (CD)

1. The following are the contract documents:
 - a. Contract Page when signed by Canada;
 - b. Duly completed Bid and Acceptance Form and any Appendices attached thereto;
 - c. Drawings and Specifications;
 - d. General Conditions and clauses

GC1 General Provisions	R2810D	(2013-04-25);
GC2 Administration of the Contract	R2820D	(2012-07-16);
GC3 Execution and Control of the Work	R2830D	(2010-01-11);
GC4 Protective Measures	R2840D	(2008-05-12);
GC5 Terms of Payment	R2850D	(2010-01-11);
GC6 Delays and Changes in the Work	R2860D	(2013-04-25);
GC7 Default, Suspension or Termination of Contract	R2870D	(2008-05-12);
GC8 Dispute Resolution	R28802	(2008-12-12);
GC9 Construct Security	R2890D	(2012-07-16)
GC10 Insurance	R2900D	(2008-05-12);

 Supplementary Conditions

Fair Wages and Hours of Labour - Labour Conditions	R2940D	(2012-07-16);
Allowable Costs for Contract Changes Under GC6.4.1	R2950D	(2007-05-25);

 Schedules of Wage Rates for Federal Construction Contracts;
 - e. Any amendment issued or any allowable bid revision received before the date and time set for solicitation closing;
 - f. Any amendment incorporated by mutual agreement between Canada and the Contractor before acceptance of the bid; and
 - g. Any amendment or variation of the contract documents that is made in accordance with the General Conditions.
2. The documents identified by title, number and date above are incorporated by reference and are set out in the Standard Acquisition Clauses and Conditions (SACC) Manual, issued by Public Works and Government Services Canada (PWGSC). The SACC Manual is available on the PWGSC Web site:
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>
3. Schedules of Wage Rates for Federal Construction Contracts is included by reference and may be accessed from the Web site:
http://www.rhdcc-hrsdc.gc.ca/eng/labour/employment_standards/contracts/schedule/index.shtml.
4. The language of the contract documents is the language of the Bid and Acceptance Form submitted.

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BID AND ACCEPTANCE FORM (BA)

BA01 IDENTIFICATION

Lower Post Soil Removal & Disposal

Lower Post, BC

BA02 BUSINESS NAME AND ADDRESS OF BIDDER

Name: _____

Address: _____

Telephone: _____ Fax: _____ PBN: _____

BA03 THE OFFER

The Bidder offers to Canada to perform and complete the Work for the above named project in accordance with the Bid Documents for the **TOTAL BID AMOUNT INDICATED IN APPENDIX 1**.

BA04 BID VALIDITY PERIOD

The bid shall not be withdrawn for a period of (thirty)[_30_] days following the date of solicitation closing.

BA05 ACCEPTANCE AND CONTRACT

Upon acceptance of the Contractor's offer by Canada, a binding Contract shall be formed between Canada and the Contractor. The documents forming the Contract shall be the contract documents identified in Contract Documents (CD).

BA06 CONSTRUCTION TIME

Work to be initiated within 10 days of Contract Award. Site work to be completed by January 17, 2014. Submittals (shop drawings, product data, and other requested submittals) to be finalized by January 10, 2014.

BA07 BID SECURITY

The Bidder is enclosing bid security with its bid in accordance with GI08 - Bid Security Requirements of R2710T - General Instructions to Bidders.

BA08 SIGNATURE

Name and title of person authorized to sign on behalf of Bidder (Type or print)

Signature

Date

APPENDIX 1 - COMBINED PRICE FORM

- 1) The prices per unit shall govern in establishing the Total Extended Amount. Any arithmetical errors in this Appendix will be corrected by Canada.
- 2) Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.

The Unit Price Table designates Work to which a Unit Price Arrangement applies.

- (a) Work included in each item is as described in the referenced specification section.
- (b) The Price per Unit shall not include any amounts for Work that is not included in that unit price Item.

Item	Class of Labour, Plant or Material	Unit of Measure-ment	Estimated Quantity (EQ)	Price per Unit GST/HST extra (PU)	Estimated amount (EQ x PU) GST / HST extra
1	Mobilization - Mobilizing of all necessary equipment, materials, supplies, facilities, and personnel to Site. Includes insurance, bonding, and permits	Lump Sum	1		
2	Demobilization - Demobilizing of all equipment, materials, supplies, facilities, and personnel from the Site, decontaminating all equipment prior to removal from Site, preparing Site for closure	Lump Sum	1		
3	Site Facilities Provisions - Provide, design, and erect all infrastructures, including temporary structures and facilities, sanitary facilities, roadways, security, and services and restoration of any of the access roads, haul roads and structures damaged during the project	Lump Sum	1		
4	Site Facilities Operation - Time to operate and maintain all infrastructures, including temporary structures and facilities, sanitary facilities, roadways, security, and services. Includes meetings, traffic control, health and safety,	Lump Sum	1		

Item	Class of Labour, Plant or Material	Unit of Measure-ment	Estimated Quantity (EQ)	Price per Unit GST/HST extra (PU)	Estimated amount (EQ x PU) GST / HST extra
	environmental protection, and cleaning. Includes living out allowances, including travel, room and board				
5	Site Fencing - Load, Transport and Return Site Fencing Rented by others to Super Save Propane and MacPherson Rentals in Whitehorse, YT	Lump Sum	1		
6	Standby - Cost to cover all personnel and equipment if work is unable to proceed due to non-specified delays caused solely by the Departmental Representative	Day	1		
7	Site Preparation - Prepare the Site for planned construction works, including snow clearing, and utility location, rerouting, and protection if necessary. Includes removal of any incidental or generated material	Lump Sum	1		
8	UST Removal and Disposal - Load, transport and dispose of the two former USTs temporarily stored onsite. (Heating oil tank and septic tank)	Lump Sum	1		
9	Loading & Transport: Non-Hazardous Waste - Treatable Weight identified at offsite receiving facility approved by Departmental Representative. Includes loading, hauling, and unloading at receiving facility for soil stored in the contaminated soil storage areas, the walls of the storage areas, and excavation to 0.5m below grade in the area underlying the soil storage areas	Tonne	1,674		

Item	Class of Labour, Plant or Material	Unit of Measure-ment	Estimated Quantity (EQ)	Price per Unit GST/HST extra (PU)	Estimated amount (EQ x PU) GST / HST extra
10	Treatment & Disposal: Non-Hazardous Waste - Treatable Weight identified at receiving offsite facility and approved by Department Representative	Tonne	1,674		
11	Backfilling - Imported Fill - Compacted, graded volume placed as surveyed by Department Representative	Cubic Metre	245		
12	Restoration - Work area restored as surveyed by Contractor. Includes re-vegetation of all areas disturbed during the course of the work, with fertilizer and seed mixture appropriate for location	Lump Sum	1		
13	Site Closure - Restore the Site to make suitable for post remediation use. Includes removal of any incidental or generated material, including the liners covering the soil	Lump Sum	1		
14	Submittals - Cost of Preparing Submittals in accordance with the specifications	Lump Sum	1		
TOTAL BID AMOUNT Excluding GST / HST					

APPENDIX 2 - SET-ASIDE PROGRAM FOR ABORIGINAL BUSINESS - (6 pages)

Requirements for the Set-aside Program for Aboriginal Business

(Annex 9.4 of the Supply Policy Manual - 2010-01-11)

1. Who is eligible?

An Aboriginal business, which can be:

a band as defined by the Indian Act

a sole proprietorship

a limited company

a co-operative

a partnership

a not-for-profit organization in which Aboriginal persons have at least 51 percent ownership and control,

OR

A joint venture consisting of two or more Aboriginal businesses or an Aboriginal business and a non-Aboriginal business(es), provided that the Aboriginal business(es) has at least 51 percent ownership and control of the joint venture.

When an Aboriginal business has six or more full-time employees at the date of submitting the bid, at least thirty-three percent of them must be Aboriginal persons, and this ratio must be maintained throughout the duration of the contract.

The supplier must certify in its submitted bid that it is an Aboriginal business or a joint venture constituted as described above.

2. Are there any other requirements attached to suppliers in the Set-Aside Program for Aboriginal Business?

Yes

In respect of a contract, (goods, service or construction), on which a supplier is making a proposal which involves subcontracting, the supplier must certify in its bid that at least thirty-three percent of the value of the work performed under the contract will be performed by an Aboriginal business. Value of the work performed is considered to be the total value of the contract less any materials directly purchased by the contractor for the performance of the contract. Therefore, the supplier must notify and, where applicable, bind the subcontractor in writing with respect to the requirements that the Aboriginal Set-Aside Program (the Program) may impose on the subcontractor or subcontractors.

The supplier's contract with a subcontractor must also, where applicable, include a provision in which the subcontractor agrees to provide the supplier with information, substantiating its compliance with the Program, and authorize the supplier to have an audit performed by Canada to examine the subcontractor's records to verify the information provided. Failure by the supplier to exact or enforce such a provision will be deemed to be a breach of contract and subject to the civil consequences referred to in this document.

As part of its bid, the supplier must complete the Certification of Requirements for the Set-Aside Program for Aboriginal Business (certification) stating that it:

meets the requirements for the Program and will continue to do so throughout the duration of the contract;

will, upon request, provide evidence that it meets the eligibility criteria;

willing to be audited regarding the certification; and acknowledges that if it is found NOT to meet the eligibility criteria, the supplier shall be subject to one or more of the civil consequences set out in the certification and the contract.

See Standard Acquisition Clauses and Conditions (SACC) Manual clauses A3000T

3. How must the business prove that it meets the requirements?

It is not necessary to provide evidence of eligibility at the time the bid is submitted. However, the business should have evidence of eligibility ready in case it is audited.

The civil consequences of making an untrue statement in the bid documents, or of not complying with the requirements of the Program or failing to produce satisfactory evidence to Canada regarding the requirements of the Program, may include: forfeiture of the bid deposit; retention of the holdback; disqualification of the business from participating in future contracts under the program; and/or termination of the contract. In the event that the contract is terminated because of an untrue statement or non-compliance with the requirements of the Program, Canada may engage another contractor to complete the performance of the contract and any additional costs incurred by Canada shall, upon the request of Canada, be borne by the business.

4. What evidence may be required from the business?

Ownership and control

Evidence of ownership and control of an Aboriginal business or joint venture may include incorporation documents, shareholders' or members' register; partnership agreements; joint venture agreements; business name registration; banking arrangements; governance documents; minutes of meetings of Board of Directors and Management Committees; or other legal documents.

Ownership of an Aboriginal business refers to "beneficial ownership" i.e., who is the real owner of the business. Canada may consider a variety of factors to satisfy whether Aboriginal persons have true and effective control of an Aboriginal business. (See Appendix A for a list of the factors, which may be considered by Canada.)

Employment and employees

Where an Aboriginal business has six or more full-time employees at the date of submitting the certification and is required by Canada to substantiate that at least 33 percent of the full-time employees are Aboriginal, the business must, upon request by Canada, immediately provide a completed Owner/Employee Certification form for each full-time employee who is Aboriginal. See SACC Manual clauses A3001T, M3030T or S3036T, as appropriate.

Evidence as to whether an employee is or is not full-time and evidence as to the number of full-time employees may include payroll records, written offers for employment, and remittance and payroll information maintained for Canada Revenue Agency purposes as well as information related to pension and other benefit plans.

A full-time employee, for the purpose of this program, is one who is on the payroll, is entitled to all benefits that other full-time employees of the business receive, such as pension plan, vacation pay and sick leave allowance, and works at least 30 hours a week. It is the number of full-time employees on the

payroll of the business at the date of bid submission that determines the ratio of Aboriginal to total employees of the business for the purpose of establishing eligibility under the Program.

Owners who are Aboriginal and full-time employees who are Aboriginal must be ready to provide evidence in support of such status. The Owner/Employee Certification to be completed by each owner and full-time employee who is Aboriginal shall state that the person meets the eligibility criteria and that the information supplied is true and complete. This certification shall provide the person's consent to the verification of the information submitted.

5. Subcontracts

Evidence of the proportion of work done by subcontractors may include contracts between the contractor and subcontractors, invoices, and paid cheques.

Evidence that a subcontractor is an Aboriginal business (where this is required to meet the minimum Aboriginal content of the contract) is the same as evidence that a prime contractor is an Aboriginal business.

6. Who is an Aboriginal Person for Purposes of the Set-Aside Program for Aboriginal Business?

An Aboriginal person is an Indian, Metis or Inuit who is ordinarily resident in Canada.

Evidence of being an Aboriginal person will consist of such proof as:

Indian registration in Canada; membership in an affiliate of the Metis National Council or the Congress of Aboriginal Peoples, or other recognized Aboriginal organizations in Canada; acceptance as an Aboriginal person by an established Aboriginal community in Canada; enrolment or entitlement to be enrolled pursuant to a comprehensive land claim agreement; membership or entitlement to membership in a group with an accepted comprehensive claim; evidence of being resident in Canada includes a provincial or territorial driver's licence, a lease or other appropriate document.

Annex A to Appendix 3 - Set-aside Program for Aboriginal Business

(Excerpt from Treasury Board Contracting Policy Notice 1996-6, Annex A.)

Factors that may be considered in determining whether Aboriginal persons have at least 51% ownership and control of an Aboriginal business include:

capital stock and equity accounts, i.e., preferred stock, convertible securities, classes of common stock, warrants, options;

dividend policy and payments;

existence of stock options to employees;

different treatment of equity transactions for corporations, partnerships, joint ventures, community organizations, cooperatives, etc.;

examination of charter documents, i.e., corporate charter, partnership agreement, financial structure;

concentration of ownership or managerial control in partners, stockholders, officers trustees and directors-based definition of duties;

principal occupations and employer of the officers and directors to determine who they represent, i.e., banker, vested ownerships;

minutes of directors meetings and stockholders meetings for significant decisions that affect operations and direction;

executive and employee compensation records for indication of level of efforts associated with position;

nature of the business in comparison with the type of contract being negotiated;

cash management practices, i.e., payment of dividends - preferred dividends in arrears;

tax returns to identify ownership and business history;

goodwill contribution/contributed asset valuation to examine and ascertain the fair market value of non-cash capital contributions;

contracts with owners, officers and employees to be fair and reasonable;

stockholder authority, i.e., appointments of officers, directors, auditors;

trust agreements made between parties to influence ownership and control decisions;

partnership - allocation and distribution of net income, i.e., provision for salaries, interest on capital and distribution share ratios;

litigation proceedings over ownership;

transfer pricing from non-Aboriginal joint venture;

payment of management or administrative fees;

guarantees made by the Aboriginal business;

collateral agreements.

Aboriginal Business Certification (A3000C) 2011-05-16

1. The Contractor warrants that its certification of compliance is accurate and complete and in accordance with the "Requirements for the Set-aside Program for Aboriginal Business" detailed in Annex 9.4 of the Supply Manual.
2. The Contractor must keep proper records and documentation relating to the accuracy of the certification provided to Canada. The Contractor must obtain the written consent of the Contracting Authority before disposing of any such records or documentation before the expiration of six (6) years after final payment under the Contract, or until settlement of all outstanding claims and disputes, under the Contract, whichever is later. All such records and documentation must at all times during the retention period be open to audit by the representatives of Canada, who may make copies and take extracts. The Contractor must provide all reasonably required facilities for any audits.
3. Nothing in this clause must be interpreted as limiting the rights and remedies which Canada may otherwise have pursuant to the Contract.

SET-ASIDE FOR ABORIGINAL BUSINESS (A3000T) 2010-08-16

1. This procurement is set aside under the federal government's Procurement Strategy for Aboriginal Business, as detailed in Annex 9.4, Requirements for the Set-aside Program for Aboriginal Business, of the Supply Manual.
2. The Bidder:
 - (i) certifies that it meets, and will continue to meet throughout the duration of any resulting contract, the requirements described in the above-mentioned annex;
 - (ii) agrees that any subcontractor it engages under any resulting contract must satisfy the requirements described in the above-mentioned annex; and
 - (iii) agrees to provide to Canada, immediately upon request, evidence supporting any subcontractor's compliance with the requirements described in the above-mentioned annex.
3. The Bidder must check the applicable box below:
 - (i) The Bidder is an Aboriginal business that is a sole proprietorship, band, limited company, co-operative, partnership or not-for-profit organization.
OR
 - (ii) The Bidder is either a joint venture consisting of two or more Aboriginal businesses or a joint venture between an Aboriginal business and a non-Aboriginal business.
4. The Bidder must check the applicable box below:
 - (i) The Aboriginal business has fewer than six full-time employees.
OR
 - (ii) The Aboriginal business has six or more full-time employees.
5. The Bidder must, upon request by Canada, provide all information and evidence supporting this certification. The Bidder must ensure that this evidence will be available for audit during normal business hours by a representative of Canada, who may make copies and take extracts from the evidence. The Bidder must provide all reasonably required facilities for any audits.
6. By submitting a bid, the Bidder certifies that the information submitted by the Bidder in response to the above requirements is accurate and complete.

Owner/Employee Certification - Set-aside for Aboriginal Business (A3001T) 2011-05-16

If requested by the Contracting Authority, the Bidder must provide the following certification for each owner and employee who is Aboriginal:

- "1. I am _____ (insert "an owner" and/or "a full-time employee") of _____ (insert name of business), and an Aboriginal person, as defined in Annex 9.4 of the Supply Manual entitled "Requirements for the Set-aside Program for Aboriginal Business".
2. I certify that the above statement is true and consent to its verification upon request by Canada.

Printed name of owner and/or employee

Signature of owner and/or employee

Date

Solicitation No. - N° de l'invitation

EZ899-141970/A

Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.

File No. - N° du dossier

PWY-3-36246

Buyer ID - Id de l'acheteur

pw026

CCC No./N° CCC - FMS No/ N° VME

APPENDIX 4 - CERTIFICATE OF INSURANCE

- attached below

Solicitation No. - N° de l'invitation

EZ899-141970/A

Amd. No. - N° de la modif.

File No. - N° du dossier

PWY-3-36246

Buyer ID - Id de l'acheteur

pw026

CCC No./N° CCC - FMS No/ N° VME

NOTE TO TENDERERS: Use the mailing label below and affix it securely to the outside of the envelope or package containing your tender. For revisions to tenders submitted by facsimile (fax # (604) 775-9381), use this sheet as the cover sheet. Always ensure your company name, return address, tender number and closing date appear legibly on the outside of your bid submission.

**REAL PROPERTY CONTRACTING
Public Works & Government Services Canada
219- 800 Burrard Street
Vancouver, B.C. V6Z 2V8**

Requisition No.: EZ899-141118/A

Tender Closing Date & Time: December 23, 2013 @ 1400 P.D.T.

Project Description: Lower Post Soil Removal and Disposal, Lower Post, BC

PL

CERTIFICATE OF INSURANCE

Description and Location of Work Lower Post Soil Removal & Disposal, Lower Post, BC	Contract No. EZ899-141970
	Project No.

Name of Insurer, Broker or Agent	Address (No., Street)	City	Province	Postal Code
	Address (No., Street)	City	Province	Postal Code

Additional Insured ; Her Majesty the Queen in Right of Canada as represented by the Minister of Public Works and Government Services

Type of Insurance (Required when Checked)	Insurer Name and Policy Number	Inception Date D / M / Y	Expiry Date D / M / Y	Limits of Liability		
				Per Occurrence	Annual General Aggregate	Completed Operations Aggregate
<input checked="" type="checkbox"/> Commercial General Liability				\$ 5 000 000 . 00	\$	\$
<input type="checkbox"/> Umbrella/Excess Liability				\$	\$	\$
<input type="checkbox"/> Builder's Risk / Installation Floater				\$		
<input checked="" type="checkbox"/> Pollution Liability				\$ 100 000 . 00	<input type="checkbox"/> Per Incident <input type="checkbox"/> Per Occurrence	Aggregate \$
<input type="checkbox"/> Marine Liability				\$		
<input type="checkbox"/> Aviation Liability				\$	<input type="checkbox"/> Per Incident <input type="checkbox"/> Per Occurrence	Aggregate \$
<input type="checkbox"/>				\$		

I certify that the above policies were issued by insurers in the course of their insurance business in Canada, are currently in force and include the applicable insurance coverages stated on page 2 of this Certificate of Insurance, including advance notice of cancellation / reduction in coverage.

Name of person authorized to sign on behalf of Insurer(s) (Officer, Agent, Broker)	Telephone Number
Signature	Date D / M / Y

<p>General</p> <p>The insurance policies required on page 1 of the Certificate of Insurance must be in force and must include the insurance coverage listed under the corresponding type of insurance on this page.</p> <p>The policies must insure the Contractor and must include Her Majesty the Queen in Right of Canada as represented by the Minister of Public Works and Government Services as an additional Insured.</p> <p>The insurance policies must be endorsed to provide Canada with not less than thirty (30) days notice in writing in advance of a cancellation of insurance or any reduction in coverage.</p> <p>Without increasing the limit of liability, the policies must protect all insured parties to the full extent of coverage provided. Further, the policies must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.</p>	<p>Commercial General Liability</p> <p>The insurance coverage provided must not be substantially less than that provided by the latest edition of IBC Form 2100.</p> <p>The policy must either include or be endorsed to include coverage for the following exposures or hazards if the Work is subject thereto:</p> <ul style="list-style-type: none"> (a) Blasting. (b) Pile driving and caisson work. (c) Underpinning. (d) Removal or weakening of support of any structure or land whether such support be natural or otherwise if the work is performed by the insured contractor. <p>The policy must have the following minimum limits:</p> <ul style="list-style-type: none"> (a) \$5,000,000 Each Occurrence Limit; (b) \$10,000,000 General Aggregate Limit per policy year if the policy contains a General Aggregate; and (c) \$5,000,000 Products/Completed Operations Aggregate Limit. <p>Umbrella or excess liability insurance may be used to achieve the required limits.</p>	<p>Builder's Risk / Installation Floater</p> <p>The insurance coverage provided must not be less than that provided by the latest edition of IBC Forms 4042 and 4047.</p> <p>The policy must permit use and occupancy of any of the projects, or any part thereof, where such use and occupancy is for the purposes for which a project is intended upon completion.</p> <p>The policy may exclude or be endorsed to exclude coverage for loss or damage caused by asbestos, fungi or spores, cyber and terrorism.</p> <p>The policy must have a limit that is not less than the sum of the contract value plus the declared value (if any) set forth in the contract documents of all material and equipment supplied by Canada at the site of the project to be incorporated into and form part of the finished Work. If the value of the Work is changed, the policy must be changed to reflect the revised contract value.</p> <p>The policy must provide that the proceeds thereof are payable to Canada or as Canada may direct in accordance with GC10.2, "Insurance Proceeds" (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R/R2900D/2).</p>
<p>Contractors Pollution Liability</p> <p>The policy must have a limit usual for a contract of this nature, but not less than \$1,000,000 per incident or occurrence and in the aggregate.</p>	<p>Marine Liability</p> <p>The insurance coverage must be provided by a Protection & Indemnity (P&I) insurance policy and must include excess collision liability and pollution liability.</p> <p>The insurance must be placed with a member of the International Group of Protection & Indemnity Associations or with a fixed market in an amount of not less than the limits determined by the <i>Marine Liability Act</i>, S.C. 2001, c. 6. Coverage must include crew liability, if it is not covered by the statutory requirements of the Territory or Province having jurisdiction over such employees.</p> <p>The policy must waive all rights of subrogation against Canada as represented by Public Works and Government Services Canada for any and all loss of or damage to the watercraft however caused.</p>	<p>Aviation Liability</p> <p>The insurance coverage shall include Bodily Injury (including passenger Bodily Injury) and Property Damage, in an amount of not less than \$5,000,000 per incident or occurrence and in the aggregate.</p>



Public Works and Government Services Canada

Requisition No. E2899 - 14 - 1970

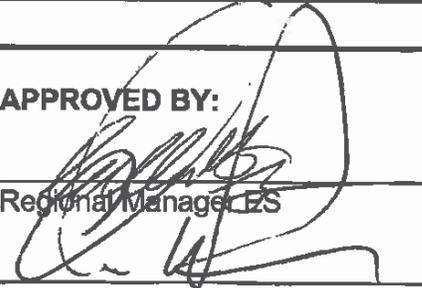
MERX I.D. No. _____

SPECIFICATIONS
for
Lower Post Soil Removal & Disposal

Victoria, BC

Project No. R.065329.002 December 2013

APPROVED BY:



Regional Manager ES 2013/02/12
Date



Construction Safety Coordinator 2013-12-03
Date

TENDER:



Project Manager 2 DEC 2013
Date

Division No.	Division Title	Page
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01 11 55	General Instructions	7
01 31 19	Project Meetings	13
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Drawing No.	Drawing Title
00069-SD-A3-00	Cover Sheet and Drawing Index
00069-SD-A3-01	Site Location
00069-SD-A3-02	Site Layout showing Soil Stockpile Locations

Appendix No.	Appendix Title
1	Analytical Table for Soil Stockpile Classification Samples
2	Analytical Reports for Soil Stockpile Classification Samples

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. Not Used

1.2. Action and Informational Submittals

1.2.1. Not Used

1.3. Definitions

- 1.3.1. Contaminated Waste: material where substances occur at concentrations that: (1) are above background levels and pose, or are likely to pose, an immediate or long-term hazard to human health or the environment, or (2) exceed the levels specified in policies and regulations. Includes Hazardous Waste and Non-Hazardous Waste; does not include Non-Contaminated Waste. Relevant regulations, unless otherwise indicated or as determined by Departmental Representative, include:
- 1.3.1.1. For all sites: Canadian Council of Ministers of the Environment (CCME) Canadian Environmental Quality Guidelines and CCME Canada-Wide Standards.
 - 1.3.1.2. For sites in BC: BC Hazardous Waste Regulations, BC Contaminated Sites Regulation.
 - 1.3.1.3. For sites in Yukon: YT Special Waste Regulation, YT Contaminated Sites Regulation.
- 1.3.2. Disposal Facility: an existing offsite facility located in Canada where waste is placed in or on land and that is designed, constructed and operated to prevent any pollution from being caused by the facility outside the area of the facility. The facility must hold a valid and subsisting permit, certificate, approval, or any other form of authorization issued by a province or territory for the disposal of soil or other material that is Waste Quality. Waste Quality means soil or other material that is not suitable for industrial, commercial, urban park, residential, agricultural, wildlands or any other land use specified in the BC Contaminated Sites Regulation.
- 1.3.3. Environmental Pollution and Damage: presence of chemical, physical, biological elements or agents which adversely affect human health and welfare; unfavourably alter ecological balances of importance to human life; affect other species of importance to humankind; or degrade environment aesthetically, culturally and/or historically.
- 1.3.4. Environmental Protection: prevention/control of pollution and habitat or environment disruption during construction. Control of environmental pollution and damage requires consideration of land, water, and air; biological and cultural resources; and includes management of visual aesthetics; vibrations; noise; solid, chemical, gaseous, and liquid waste; radiant energy and radioactive material as well as other pollutants.

- 1.3.5. Environmental Protection Plan: plan developed by the Contractor identifying all environmental risks and mitigation measures, including: personnel requirements, emergency contacts, environmental protection methods, procedures, and equipment, and emergency response including a Spill Control Plan.
- 1.3.6. Hazardous Waste: Contaminated Waste which meets the regulatory definition of Hazardous Waste. Includes:
 - 1.3.6.1. Hazardous Waste – Treatable: Hazardous Waste which contains only contaminants which are amenable to treatment.
 - 1.3.6.2. Hazardous Waste – Nontreatable: Hazardous Waste which contains only contaminants which are not amenable to treatment.
 - 1.3.6.3. Hazardous Waste – Comingled: Hazardous Waste which contains some contaminants which are amenable to treatment and some that are not.
- 1.3.7. Land Farming: a method of reducing the concentrations of hydrocarbon constituents in soil through biodegradation, characterized by spreading contaminated soil over a large surface area in the absence of engineered structures designed to contain the contamination. No active remediation (eg tilling) is required for Land Farming.
- 1.3.8. Landfill: an existing offsite facility located in Canada where waste is placed in or on land and that is designed, constructed and operated to prevent any pollution from being caused by the facility outside the area of the facility. The facility must hold a valid and subsisting permit, certificate, approval, or any other form of authorization issued by a province or territory for the disposal of waste.
- 1.3.9. Materials Source Separation Program (MSSP): consists of a series of ongoing activities to separate reusable and recyclable waste material into material categories from other types of waste at point of generation.
- 1.3.10. Non-Contaminated Waste: waste which is not Contaminated Waste. Includes cleared and grubbed vegetation, litter, rubbish, debris, excess construction material, lumber, steel, plastic, concrete, asphalt, and wastewater not treated onsite. Includes surplus or unsuitable material such as topsoil or excavated non-contaminated soil which cannot be reused onsite.
- 1.3.11. Non-Hazardous Waste: Contaminated Waste which does not meet the regulatory definition of Hazardous Waste. Includes:
 - 1.3.11.1. Non-Hazardous Waste – Treatable: Non-Hazardous Waste which contains only contaminants which are amenable to treatment.
 - 1.3.11.2. Non-Hazardous Waste – Nontreatable: Non-Hazardous Waste which contains only contaminants which are not amenable to treatment.
 - 1.3.11.3. Non-Hazardous Waste – Comingled: Non-Hazardous Waste which contains some contaminants which are amenable to treatment and some that are not.
- 1.3.12. Relocation: consists of excavating, loading, transporting, unloading, and placing soil or other material from one place on the Site to another.
- 1.3.13. Removal: consists of collecting, loading, transporting, unloading, and disposal of Non-Contaminated Waste at a Landfill. As determined by Departmental Representative, also includes: reuse onsite rather than disposal, recycling instead of disposal, and treatment in addition to disposal.

-
- 1.3.14. Site: area identified on Drawings.
 - 1.3.15. Soil Treatment Facility (STF): an onsite engineered structure designed to contain hydrocarbon contaminated soil while reducing concentrations of hydrocarbon constituents through biodegradation. Examples of soil treatment facilities include biocells, biopiles and windrows but do not include Land Farms. Includes berms, ditches, and filters to contain contaminants.
 - 1.3.16. Treatment Facility: an existing offsite facility located in Canada designed, constructed and operated for the handling or processing of waste in such a manner as to change the physical, chemical or biological character or composition of the waste. The facility must hold a valid and subsisting permit, certificate, approval, or any other form of authorization issued by a province or territory for the treatment of soil or other material that is Waste Quality. Waste Quality means soil or other material that is not suitable for industrial, commercial, urban park, residential, agricultural, wildlands or any other land use specified in the BC Contaminated Sites Regulation.
 - 1.3.17. Waste Audit (WA): relates to projected waste generation. Involves controlled separation of waste.
 - 1.3.18. Waste Reduction Workplan (WRW): a written report which addresses opportunities for reduction, reuse or recycling of materials.

1.4. Work Covered by Contract Documents

- 1.4.1. Work under this Contract covers removal and disposal of Contaminated Soils temporarily stored on Site in Lower Post, BC. The Site is identified in the Drawings.
- 1.4.2. Work to be performed under this Contract includes, but is not limited to, the following items covered further in the Contract Documents:
 - 1.4.2.1. Prime Contractor for Health and Safety at Site.
 - 1.4.2.2. All activities to complete Work.
 - 1.4.2.3. Prepare Site for Work.
 - 1.4.2.4. Mobilization and Demobilization of all equipment personnel and materials
 - 1.4.2.5. Load, haul, and deposit contaminated soil stored on site to an offsite Disposal Facility or Treatment Facility.
 - 1.4.2.6. Load, haul, and deposit soil used for the construction of soil storage areas to an offsite Disposal Facility or Treatment Facility
 - 1.4.2.7. Excavate 0.5 metres below contaminated soil stored on site and transport these soils to an offsite Disposal Facility or Treatment Facility.
 - 1.4.2.8. Load, haul and dispose of storage tanks (former USTs) that are also stored temporarily on site.
 - 1.4.2.9. Restore and close Site.
 - 1.4.2.10. Transport/Return Rental Fencing to Whitehorse for PWGSC
 - 1.4.2.11. All ancillary activities required to complete Work.
- 1.4.3. "Green Requirements":
 - 1.4.3.1. Use only environmentally responsible green materials/products with no Volatile Organic Compounds (VOC) emissions or minimum VOC emissions of indoor off-gassing contaminants for improved indoor air quality – subject

- of Departmental Representative's approval of submitted Materials Safety Data Sheet (MSDS) Product Data.
- 1.4.3.2. Use materials/products containing highest percentage of recycled and recovered materials practicable – consistent with maintaining cost effective satisfactory levels of competition.
 - 1.4.3.3. Adhere to waste reduction requirement for reuse or recycling of waste materials, thus diverting materials from landfill.
 - 1.4.4. Work not included in Contract comprises such work and services specifically listed as:
 - 1.4.4.1. Not Used.

1.5. Project/Site Conditions

- 1.5.1. Work at the Site will be conducted in Winter conditions and as such contractor shall be prepared for such conditions
- 1.5.2. Work at Site will involve contact with contaminated materials including:
 - 1.5.2.1. Hydrocarbons in soils.
- 1.5.3. Complete list of anticipated contaminants and concentration levels on the Site are shown on the drawings and appendices.

1.6. Other Contracts

- 1.6.1. Another contract is currently in progress at Site.
- 1.6.2. Other contract is:
 - 1.6.2.1. Environmental consultant.
- 1.6.3. Further contracts may be awarded while this Contract is in progress.
- 1.6.4. Cooperate with other contractors in carrying out their respective works and carry out instructions from Departmental Representative.
- 1.6.5. Coordinate Work with that of other contractors. If any part of Work under this Contract depends for its proper execution or result upon work of another contractor, report promptly to Departmental Representative, in writing, any defects which may interfere with proper execution of this Work.

1.7. Contractor's Use of Site

- 1.7.1. Use of Site:
 - 1.7.1.1. Exclusive and complete for execution of Work.
 - 1.7.1.2. Assume responsibility for assigned premises for performance of this Work.
 - 1.7.1.3. Be responsible for coordination of all Work activities onsite, including the work of other contractors engaged by the Departmental Representative.
- 1.7.2. Perform Work in accordance with Contract Documents. Ensure Work is carried out in accordance with indicated phasing.
- 1.7.3. Do not unreasonably encumber Site with material or equipment.

1.8. Time of Completion

- 1.8.1. Work to be initiated within 10 days of Contract Award. Site work to be completed by January 17, 2014. Submittals (shop drawings, product data, and other requested submittals) to be finalized by January 10, 2014.

1.9. Hours of Work

- 1.9.1. Restrictive as follows:
- 1.9.1.1. Normal weekday working hours are 07:00 to 19:00.
 - 1.9.1.2. Notify Departmental Representative of all after hours work, including weekends and holidays.

1.10. Codes, Bylaws, Standards

- 1.10.1. Perform Work in accordance with the National Building Code of Canada (NBC), and other required or indicated Codes, Construction Standards and/or any other Code or Bylaw of local application.
- 1.10.2. Comply with restrictions of applicable local bylaws, rules and regulations enforced at the location concerned. These include:
- 1.10.2.1. Pollution, waste, or garbage restrictions.
 - 1.10.2.2. Truck, traffic, and road access restrictions.
 - 1.10.2.3. Water, stormwater, and sewer restrictions.
 - 1.10.2.4. Noise restrictions.
 - 1.10.2.5. Signage, fencing, hoarding restrictions.
 - 1.10.2.6. Fire prevention restrictions.
 - 1.10.2.7. Fuel equipment and storage restrictions.
- 1.10.3. Meet or exceed requirements of Contract Documents, specified standards, codes and referenced documents.
- 1.10.4. In any case of conflict or discrepancy, the most stringent requirements will apply.

1.11. Security Clearances

- 1.11.1. Not Used

2. PART 2 - PRODUCTS

2.1. Not Used

- 2.1.1. Not Used

3. PART 3 - EXECUTION

3.1. Not Used

- 3.1.1. Not Used

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. Not Used

1.2. Action and Informational Submittals

1.2.1. Not Used

1.3. Codes

1.3.1. Perform Work to Current Codes, Construction Standards and Bylaws, including Amendments.

1.4. Contract Documents

1.4.1. The Contract Documents, including drawings and specifications, are intended to complement each other, and to provide for and include everything necessary for the completion of the Work.

1.4.2. Drawings are, in general, diagrammatic and are intended to indicate the scope and general arrangement of the Work.

1.5. Division of Specifications

1.5.1. The specifications are subdivided in accordance with the current 6-digit National Master Specifications System.

1.5.2. A division may consist of the Work of more than 1 subcontractor. Responsibility for determining which subcontractor provides the labour, material, equipment and services required to complete the Work rests solely with the Contractor.

1.6. Work Schedule

1.6.1. Carry on Work as per indicated "PHASES" and as follows:

1.6.1.1. Within 5 working days after Contract award, provide a schedule showing anticipated progress stages and final completion of the Work within the time period required by the Contract Documents. Indicate the following:

1.6.1.1.1. Submission of product data, MSDS sheets and samples.

1.6.1.1.2. Commencement and completion of Work of each section of the specifications or trade for each phase as outlined.

1.6.1.1.3. Work initiation and final completion date within the time period required by the Contract Documents.

1.6.1.2. Do not change accepted Schedule without notifying Departmental Representative.

1.6.1.3. Interim reviews of Work progress based on work schedule will be conducted as decided by Departmental Representative and schedule updated by Contractor in conjunction with and to approval of Departmental Representative.

1.7. Cost Breakdown

- 1.7.1. Before submitting the first progress claim, submit a breakdown of the Contract lump sum prices in detail as determined by the Departmental Representative and aggregating Contract price.

1.8. Documents Required

- 1.8.1. Maintain 1 copy each of the following posted at the job Site:
 - 1.8.1.1. Contract drawings.
 - 1.8.1.2. Contract specifications.
 - 1.8.1.3. Addenda or other modifications to Contract Documents.
 - 1.8.1.4. Change orders.
 - 1.8.1.5. Copy of current Work schedule.
 - 1.8.1.6. One set of record drawings and specifications for "as-built" purposes.
 - 1.8.1.7. Field test reports.
 - 1.8.1.8. Reviewed and accepted submissions.
 - 1.8.1.9. Manufacturers' installation and application instructions (as appropriate).
 - 1.8.1.10. National Building Code of Canada (as appropriate).
 - 1.8.1.11. Current construction standards of workmanship listed in technical Sections (as appropriate).
 - 1.8.1.12. Health and Safety documents.
 - 1.8.1.13. Environmental Protection Plan.
 - 1.8.1.14. Permits and other approvals.

1.9. Regulatory Requirements

- 1.9.1. Generally, provincial and municipal laws and regulations do not apply on federal lands or to federal undertakings. Soils and other materials that are removed from federal lands may become subject to provincial or municipal laws and regulations.
- 1.9.2. Provincial or municipal standards may be used in relation to federal lands only as guidelines for the purpose of establishing remediation goals and objectives. The term "standards" is used in this part in order to maintain consistency in terminology throughout this document, and does not imply that standards contained in provincial or municipal laws and regulations apply on federal lands.
- 1.9.3. Obtain and pay for – Building Permit, Certificates, Licenses and other permit enforced at the location concerned required by regulatory municipal, provincial or federal authorities to complete the Work.
- 1.9.4. Provide inspection authorities with plans and information required for issue of acceptance certificates.
- 1.9.5. Furnish inspection certificates in evidence that the Work installed conforms with the requirements of the authority having jurisdiction.

1.10. Examination

- 1.10.1. Examine Site and be familiar and conversant with existing conditions likely to affect Work, including Contaminated Waste.
- 1.10.2. Provide photographs of surrounding properties, objects and structures liable to be damaged or be the subject of subsequent claims.

1.11. Existing Services

- 1.11.1. Where Work involves breaking into or connecting to existing services, carry out Work at times determined by the authorities having jurisdiction.
- 1.11.2. Notify Departmental Representative and utility companies of intended interruption of services and obtain required permission.
- 1.11.3. Provide alternative routes for personnel, pedestrian, and vehicular traffic.
- 1.11.4. Establish location and extent of service lines in area of work before starting Work. Notify Departmental Representative of findings.
- 1.11.5. Submit schedule to and obtain approval from Departmental Representative for any shut-down or closure of active service or facility including power and communications services. Adhere to approved schedule and provide notice to affected parties.
- 1.11.6. Provide temporary services as required to maintain critical building and tenant systems.
- 1.11.7. Provide adequate bridging over trenches which cross sidewalks or roads to permit normal traffic.
- 1.11.8. Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.
- 1.11.9. Construct barriers as required for safety.

1.12. Setting out of Work

- 1.12.1. Assume full responsibility for and execute complete layout of Work to locations, lines and elevations indicated.
- 1.12.2. Provide devices needed to lay out and construct Work.
- 1.12.3. Supply such devices as templates required to facilitate Departmental Representative's inspection of Work.

1.13. Acceptance of Substrates

- 1.13.1. Each trade will examine surfaces prepared by others and job conditions which may affect his work, and will report defects to the Departmental Representative. Commencement of Work will imply acceptance of prepared Work or substrate surfaces.

1.14. Quality of Work

- 1.14.1. Ensure that quality workmanship is performed through use of skilled tradesmen, under supervision of qualified journeyman.
- 1.14.2. The workmanship, erection methods and procedures to meet minimum standards set out in the National Building Code of Canada.
- 1.14.3. In cases of dispute, decisions as to standard or quality of Work rest solely with the Departmental Representative, whose decision is final.

1.15. Works Coordination

- 1.15.1. Coordinate work of subtrades.

- 1.15.1.1. Designate one person to be responsible for review of contract documents and shop drawings and managing coordination of Work.
- 1.15.2. Convene meetings between subcontractors whose work interfaces and ensure awareness of areas and extent of interface required.
 - 1.15.2.1. Provide each subcontractor with complete plans and specifications for Contract, to assist them in planning and carrying out their respective work.
- 1.15.3. Work coordination:
 - 1.15.3.1. Ensure cooperation between trades in order to facilitate general progress of Work and avoid situations of spatial interference.
 - 1.15.3.2. Ensure that each trade provides all other trades reasonable opportunity for completion of Work and in such a way as to prevent unnecessary delays, cutting, patching and removal or replacement of completed Work.
 - 1.15.3.3. Ensure disputes between subcontractors are resolved.
- 1.15.4. Departmental Representative is not responsible for, or accountable for extra costs incurred as a result of Contractor's failure to coordinate Work.

1.16. Approvals of Product Data and Samples

- 1.16.1. Submit the requested product data, MSDS sheets and samples indicated in each of the technical Sections to the Departmental Representative.
- 1.16.2. Allow sufficient time for the following:
 - 1.16.2.1. Review of product data.
 - 1.16.2.2. Approval of Products.
 - 1.16.2.3. Review of re-submission.
 - 1.16.2.4. Ordering of accepted material and/or products.

1.17. Relics and Antiquities

- 1.17.1. Relics and antiquities and items of historical or scientific interest will remain property of Department. Protect such articles and request directives from Departmental Representative.
- 1.17.2. Give immediate notice to Departmental Representative if evidence of archeological finds are encountered during excavation/construction, and await Departmental Representative's written instructions before proceeding with Work in this area.

1.18. Products Supplied by Departmental Representative

- 1.18.1. Not Used.

1.19. Testing and Inspection

- 1.19.1. With the exception of environmental confirmatory sampling within the excavation, the Contractor will appoint and pay for the services of testing agency or testing laboratory as specified, and where required for the following:
 - 1.19.1.1. Inspection and testing required by laws, ordinances, rules, regulations or orders of public authorities.
 - 1.19.1.2. Inspection and testing performed exclusively for Contractor's convenience.

- 1.19.2. Where tests or inspections by designated testing laboratory reveal Work is not in accordance with the Contract requirements, Contractor will pay costs for additional tests or inspections as the Departmental Representative may require to verify acceptability of correct Work.
- 1.19.3. Contractor will furnish labour and facilities to:
 - 1.19.3.1. Notify Departmental Representative in advance of planned testing.
- 1.19.4. Where materials are specified to be tested, deliver representative samples in required quantity to testing laboratory.
- 1.19.5. Pay costs for uncovering and making good Work that is covered before required inspection or testing is completed and reviewed for acceptance by Departmental Representative.
- 1.19.6. The Departmental Representative may require, and pay for, additional inspection and testing services not included above.
- 1.19.7. Provide Departmental Representative with 2 copies of testing laboratory reports as soon as they are available.

1.20. As-Built Documents

- 1.20.1. Not Required

1.21. Cleaning

- 1.21.1. Conduct daily cleaning and disposal operations. Comply with local ordinances and anti-pollution laws.
- 1.21.2. Ensure cleanup of the work areas each day after completion of Work.

1.22. Dust Control

- 1.22.1. Prevent fugitive dust from the Site from interfering with onsite and offsite uses.

1.23. Environmental Protection

- 1.23.1. Prevent extraneous materials from contaminating air beyond construction area, by providing temporary enclosures during Work.
- 1.23.2. Do not dispose of waste or volatile materials into water courses, storm or sanitary sewers.
- 1.23.3. Ensure proper disposal procedures in accordance with all applicable territorial regulations.

1.24. Additional Drawings

- 1.24.1. The Departmental Representative may furnish additional drawings for clarification. These additional drawings have the same meaning and intent as if they were included with plans referred to in the Contract Documents.
- 1.24.2. Upon request, Departmental Representative may furnish up to a maximum of 2 sets of Contract Documents for use by the Contractor at no additional cost. Should more than 2 sets of documents be required the Departmental Representative will provide them at additional cost.

1.25. Smoking Environment

1.25.1. Smoking on the Site is not permitted

1.26. System of Measurement

1.26.1. The metric system of measurement (SI) will be employed on this Contract.

1.27. Familiarization with Site

1.27.1. Before submitting tender become familiar with all conditions likely to affect the cost of the Work.

1.27.2. No claims or change orders will be considered by PWGSC in regard to existing conditions due to the Contractor's lack of familiarity with the Site.

1.28. Submission of Tender

1.28.1. Submission of a tender is deemed to be confirmation of the fact that the Tenderer has analyzed the Contract Documents and inspected the Site, and is fully conversant with all conditions.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. Not Used

1.2. Action and Informational Submittals

1.2.1. Not Used

1.3. Administrative

- 1.3.1. Schedule and administer project meetings throughout the progress of the Work at the call of Departmental Representative.
- 1.3.2. Prepare agenda for meetings.
- 1.3.3. Distribute written notice with agenda of each meeting 2 working days in advance of meeting date to Departmental Representative.
- 1.3.4. Provide physical space and make arrangements for meetings.
- 1.3.5. Preside at meetings.
- 1.3.6. Record the meeting minutes. Include significant proceedings and decisions. Identify actions by parties.
- 1.3.7. Reproduce and distribute copies of minutes within 2 working days after meetings and transmit to meeting participants, affected parties not in attendance, and Departmental Representative.
- 1.3.8. Representative of Contractor, Subcontractor and suppliers attending meetings will be qualified and authorized to act on behalf of party each represents.

1.4. Preconstruction Meeting

- 1.4.1. Within 5 working days after award of Contract, request a meeting of parties in contract to discuss and resolve administrative procedures and responsibilities.
- 1.4.2. Departmental Representative, Contractor, Superintendent, major Subcontractors, field inspectors and supervisors will be in attendance.
- 1.4.3. Establish time and location of meeting and notify parties concerned minimum 3 working days before meeting.
- 1.4.4. Agenda to include:
 - 1.4.4.1. Appointment of official representative of participants in the Work.
 - 1.4.4.2. Schedule of Work.
 - 1.4.4.3. Schedule of submissions.
 - 1.4.4.4. Requirements for temporary facilities.
 - 1.4.4.5. Site security.
 - 1.4.4.6. Change orders, procedures, approvals required, administrative requirements.
 - 1.4.4.7. Monthly progress claims, administrative procedures, hold backs.
 - 1.4.4.8. Appointment of inspection and testing agencies or firms.

1.5. Progress Meetings

- 1.5.1. During course of Work schedule progress meetings bi – weekly (ie twice per work week).

- 1.5.2. Contractor, Superintendent, major Subcontractors involved in Work, Departmental Representative, and Owner are to be in attendance.
- 1.5.3. Agenda to include:
 - 1.5.3.1. Review, approval of minutes of previous meeting.
 - 1.5.3.2. Review of Work progress since previous meeting.
 - 1.5.3.3. Field observations, problems, conflicts.
 - 1.5.3.4. Problems which impede construction schedule.
 - 1.5.3.5. Review of offsite fabrication delivery schedules.
 - 1.5.3.6. Corrective measures and procedures to regain projected schedule.
 - 1.5.3.7. Revision to construction schedule.
 - 1.5.3.8. Progress schedule, during succeeding work period.
 - 1.5.3.9. Review submittal schedules: expedite as required.
 - 1.5.3.10. Maintenance of quality standards.
 - 1.5.3.11. Review proposed changes for affect on construction schedule and on completion date.
 - 1.5.3.12. Other business.

1.6. Tailgate Meetings

- 1.6.1. During the course of the work daily tailgate meetings at the start of each work shift. Multiple meetings will be required if the Contractor intends to work multiple shifts within a 24-hour period.
- 1.6.2. All construction workers to attend, including Contractor, Superintendent, major Subcontractors, and environmental consultants. Departmental Representative may attend.
- 1.6.3. Agenda to include:
 - 1.6.3.1. Planned Work activities and environmental considerations for that shift.
 - 1.6.3.2. Coordination activities required between Contractor, Subcontractors, Departmental Representative, and other contractors including environmental consultant.
 - 1.6.3.3. Health and Safety items as identified or otherwise required.

2. PART 2 - PRODUCTS

2.1. Not Used

- 2.1.1. Not Used

3. PART 3 - EXECUTION

3.1. Not Used

- 3.1.1. Not Used

END OF SECTION



1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. Not Used

1.2. Action and Informational Submittals

1.2.1. Not Used

1.3. Approvals

1.3.1. Approval of shop drawings and samples required by Departmental Representative as indicated.

1.4. General

- 1.4.1. This Section specifies general requirements and procedures for the Contractor's submissions of shop drawings, product data, samples and other requested submittals to Departmental Representative for review. Additional specific requirements for submissions are specified in individual technical sections.
- 1.4.2. Present shop drawings, product data and samples in SI Metric units.
- 1.4.3. Where items or information is not produced in SI Metric units, converted values are acceptable.
- 1.4.4. Contractor's responsibility for errors and omissions in submission is not relieved by Departmental Representative's review of submissions.
- 1.4.5. Notify Departmental Representative in writing at time of submission, identifying deviations from requirements of Contract Documents and stating reasons for deviations.
- 1.4.6. Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Departmental Representative's review of submission unless Departmental Representative gives written acceptance of specific deviations.
- 1.4.7. Make any changes in submissions which Departmental Representative may require consistent with Contract Documents and resubmit as determined by Departmental Representative.
- 1.4.8. Notify Departmental Representative in writing, when resubmitting, of any revisions other than those requested by Departmental Representative.
- 1.4.9. Do not proceed with Work until relevant submissions are reviewed and accepted by the Departmental Representative.
- 1.4.10. Submit to Departmental Representative submittals listed for review. Submit promptly and in orderly sequence to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for extension of Contract Time and no claim for extension by reason of such default will be allowed.
- 1.4.11. Review submittals prior to submission to Departmental Representative. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and coordinated with requirements of Work and Contract Documents. Submittals not stamped,

signed, dated and identified as to specific project will be returned without being examined and considered rejected.

- 1.4.12. Verify field measurements and affected adjacent Work are coordinated.
- 1.4.13. Adjustments made on submittals by Departmental Representative are not intended to change Contract price. If adjustments affect value of Work, state such in writing to Departmental Representative prior to proceeding with Work.
- 1.4.14. Keep one reviewed copy of each submission on site.

1.5. Submission Requirements

- 1.5.1. Coordinate each submission with the requirements of the Work and the Contract Documents. Individual submissions will not be reviewed until:
 - 1.5.1.1. Submissions are complete.
 - 1.5.1.2. All related information is available.
- 1.5.2. Allow 5 working days for Departmental Representative's review of each submission, unless noted otherwise.
- 1.5.3. Accompany submissions with transmittal letter, in duplicate, containing:
 - 1.5.3.1. Date.
 - 1.5.3.2. Project title and number.
 - 1.5.3.3. Contractor's name and address.
 - 1.5.3.4. Identification and quantity of each shop drawing, product data and sample.
 - 1.5.3.5. Other pertinent data.
- 1.5.4. Submissions must include:
 - 1.5.4.1. Date and revision dates.
 - 1.5.4.2. Project title and number.
 - 1.5.4.3. Name and address of:
 - 1.5.4.3.1. Subcontractor.
 - 1.5.4.3.2. Supplier.
 - 1.5.4.3.3. Manufacturer.
 - 1.5.4.4. Contractor's stamp, signed by Contractor's authorized representative, certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
 - 1.5.4.5. Contractor's Professional Engineer or other Qualified Professional to seal submissions. Submissions to include at a minimum 1 hard copy of original ink sealed document.
 - 1.5.4.6. Details of appropriate portions of Work as applicable.
 - 1.5.4.7. After Departmental Representative's review, distribute copies.

1.6. Product Data

- 1.6.1. Product data: manufacturers' catalogue sheets, MSDS sheets, brochures, literature, performance charts and diagrams, used to illustrate standard manufactured products or any other specified information.
- 1.6.2. Delete information not applicable to project.
- 1.6.3. Supplement standard information to provide details applicable to project.
- 1.6.4. Cross-reference product data information to applicable portions of Contract Documents.

1.6.5. Submit 2 copies of product data.

1.7. Samples

- 1.7.1. For all imported material, provide samples to Departmental Representative prior to material arriving onsite.
- 1.7.2. Provide samples representative of all material to be imported.
- 1.7.3. Provide sufficient sample size to allow geotechnical and environmental quality testing.
- 1.7.4. Do not import material until Departmental Representative has completed and analysed testing.
- 1.7.5. Departmental Representative will inspect imported material, and will not allow import of material that varies from provided samples.

1.8. Progress Schedule

- 1.8.1. Submit work schedule and cost breakdown as required.

1.9. Test Results and Inspection Reports

- 1.9.1. Submit in duplicate test results and inspection reports required.

2. PART 2 - PRODUCTS

2.1. Not Used

- 2.1.1. Not Used

3. PART 3 - EXECUTION

3.1. Not Used

- 3.1.1. Not Used

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. Not Used

1.2. Action and Informational Submittals

1.2.1. Not Used

1.3. Protection of Public Traffic

- 1.3.1. Comply with requirements of Acts, Regulations and By-Laws in force for regulation of traffic or use of roadways upon or over which it is necessary to carry out Work or haul materials or equipment.
- 1.3.2. Comply with current version of BC Ministry of Transportation Traffic Control Manual for Work on Roadways.
- 1.3.3. Provide and maintain road access and egress to property fronting along Work under Contract and in other areas as indicated, except where other means of road access exist that meet approval of Departmental Representative.

1.4. Informational and Warning Devices

- 1.4.1. Provide and maintain signs, flashing warning lights, and other devices required to indicate construction activities or other temporary and unusual conditions resulting from Project Work which requires road user response.
- 1.4.2. Supply and erect signs, delineators, barricades and miscellaneous warning devices to BC Ministry of Transportation Traffic Control Manual for Work on Roadways.
- 1.4.3. Place signs and other devices in locations recommended in BC Ministry of Transportation Traffic Control Manual for Work on Roadways.
- 1.4.4. Meet with Departmental Representative prior to commencement of Work to prepare list of signs and other devices required for project. If situation on site changes, revise list to approval of Departmental Representative.
- 1.4.5. Continually maintain traffic control devices in use:
 - 1.4.5.1. Check signs daily for legibility, damage, suitability and location. Clean, repair or replace to ensure clarity and reflectance.
 - 1.4.5.2. Remove or cover signs which do not apply to conditions existing from day to day.

1.5. Control of Public Traffic

- 1.5.1. Provide competent flag personnel, trained in accordance with, and properly equipped to BC Ministry of Transportation Traffic Control Manual for Work on Roadways for situations as follows:
 - 1.5.1.1. When public traffic is required to pass working vehicles or equipment that block all or part of travelled roadway.
 - 1.5.1.2. In situations where complete protection for workers, working equipment and public traffic is not provided by other traffic control devices.

1.6. Operational Requirements

- 1.6.1. Maintain existing conditions for traffic throughout period of contract except that, when required for construction under contract and when measures have been taken as specified and approved by Departmental Representative to protect and control public traffic, existing conditions for traffic to be restricted as follows:
 - 1.6.1.1. Maintain existing conditions for traffic crossing right-of-way.

2. PART 2 - PRODUCTS

2.1. Not Used

- 2.1.1. Not Used

3. PART 3 - EXECUTION

3.1. Not Used

- 3.1.1. Not Used

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. Not Used

1.2. Action and Informational Submittals

- 1.2.1. Contaminated Waste Management Plan: within 5 working days after Contract award and prior to mobilization to Site submit plan detailing management of Contaminated Waste.
- 1.2.2. Submittals for Progress Meetings: make submittals at least 24 hours prior to scheduled progress meetings as follows:
 - 1.2.2.1. Updated progress schedule detailing activities. Include review of progress with respect to previously established dates for starting and stopping various stages of Work, major problems and action taken, injury reports, equipment breakdown, and material removal.
 - 1.2.2.2. Copies of transport manifests, trip tickets, and disposal receipts for waste materials removed from work area.
 - 1.2.2.3. Other information required by Departmental Representative or relevant to agenda for upcoming progress meeting.
- 1.2.3. Site Layout: within 5 working days after Contract award and prior to mobilization to Site, submit site layout drawings showing existing conditions and facilities, construction facilities and temporary controls provided by Contractor including following:
 - 1.2.3.1. Equipment and personnel decontamination areas.
 - 1.2.3.2. Means of ingress, egress and temporary traffic control facilities.
 - 1.2.3.3. Equipment and material staging areas.
 - 1.2.3.4. Soil stockpile areas.
 - 1.2.3.5. Other required features as specified in Contractor's site-specific Health and Safety Plan.
 - 1.2.3.6. Grading, including contours, required to construct temporary facilities.
- 1.2.4. Equipment Decontamination Procedures: Submit equipment decontamination procedures and the proposed area for decontamination in the site layout within 5 days of contract award to Departmental Representative for review prior to commencing the work. Equipment decontamination procedures are to be consistent with industry practices with the level of contamination as identified in the drawings.
- 1.2.5. Transport Manifests: within 5 working days of offsite transport, submit documentation verifying that material has been transported appropriately, including:
 - 1.2.5.1. Method of transport.
 - 1.2.5.2. Name of transport company.
 - 1.2.5.3. Location, date, and quantity of pick-up.
 - 1.2.5.4. Location, date, and quantity of drop-off.

- 1.2.6. Certificate of Disposal: within 30 working days of disposal at offsite Disposal Facility, submit documentation verifying that materials have been disposed by Contractor, including:
 - 1.2.6.1. Issued by the Disposal Facility.
 - 1.2.6.2. On company letterhead.
 - 1.2.6.3. Name and location of facility where the material is being disposed.
 - 1.2.6.4. Date and quantity for each shipment received and total quantity received.
 - 1.2.6.5. Signed by identified authorized company representative.
- 1.2.7. Certificate of Treatment: within 30 working days of treatment at offsite Treatment Facility, submit documentation verifying that materials have been treated by Contractor, including:
 - 1.2.7.1. Issued by the Treatment Facility.
 - 1.2.7.2. On company letterhead.
 - 1.2.7.3. Name and location of facility where the material is being treated.
 - 1.2.7.4. Date and quantity for each shipment received and total quantity received.
 - 1.2.7.5. Date and quantity for each treatment event and total quantity treated.
 - 1.2.7.6. Treatment methodology.
 - 1.2.7.7. Laboratory certificates demonstrating treatment objectives were met.
 - 1.2.7.8. Disposition of treated material.
 - 1.2.7.9. Signed by identified authorized company representative.

1.3. Sequencing and Scheduling

- 1.3.1. Do not commence Work involving contact with potentially Contaminated Wastes until decontamination facilities are operational and reviewed for acceptance by Departmental Representative.

1.4. Equipment Decontamination

- 1.4.1. Prior to commencing Work involving equipment contact with potentially Contaminated Wastes, develop an equipment decontamination area to accommodate largest piece of onsite potentially contaminated equipment. Commence Work involving equipment contact with potentially Contaminated Waste only after Equipment Decontamination Area is operational.
- 1.4.2. Provide, operate, and maintain necessary equipment required to collect and contain equipment decontamination waste and transfer materials to accepted storage facilities.
- 1.4.3. Decontaminate equipment after working in potentially contaminated work areas and prior to subsequent Work or travel on clean areas.
- 1.4.4. Perform equipment decontamination as per decontamination procedures required in submittals.
- 1.4.5. At minimum, perform following steps during equipment decontamination: mechanically remove packed dirt, grit, and debris by scraping and brushing without using steam or high-pressure.
- 1.4.6. Each piece of equipment will be inspected by Departmental Representative after decontamination and prior to removal from Site and/or travel on clean areas.

Departmental Representative will have right to require additional decontamination to be completed if deemed necessary at no additional cost.

- 1.4.7. Transfer sediments to soil staging area.
- 1.4.8. Furnish and equip personnel engaged in equipment decontamination with protective equipment as required in the Contractor's Health and Safety Plan.

1.5. Soil Stockpiling Facilities

- 1.5.1. Provide, maintain, and operate storage/stockpiling facilities as required. Obtain approval of proposed storage/stockpiling facilities areas from Departmental Representative. Soil stockpiles to be located within 100 metres of the excavation area.
- 1.5.2. Segregate non-contaminated soil from contaminated soil.
- 1.5.3. Store non-contaminated soil excavated only on non-contaminated site surface areas. Ensure no contact between non-contaminated excavated soil and drainage or contaminated water or contaminated soil.
- 1.5.4. Store excavated, contaminated soil in drums or water-tight temporary storage cells.
 - 1.5.4.1. Install impermeable liner below proposed stockpile locations to prevent contact between stockpile material and ground.
 - 1.5.4.2. Cover stockpiled material when not being worked or sampled to prevent release of airborne dust, vapours, or odours, and to prevent saturation and leachate generation of material.
 - 1.5.4.3. Segregate different suspect material in discrete piles as determined by Departmental Representative.
 - 1.5.4.4. Assist Departmental Representative in collection of stockpile samples for exsitu characterization. Exsitu characterization may take up to 5 working days. No standby charges or delays to be incurred for confirmatory sampling.
 - 1.5.4.5. Equip facility with tarps capable of covering stockpiled material until Departmental Representative advises Contractor to dispose of material offsite.

1.6. Vehicular Access and Parking

- 1.6.1. Maintenance and Use:
 - 1.6.1.1. Prevent contamination of access roads. Immediately scrape up debris or material on access roads which is suspected to be contaminated as determined by Departmental Representative; transport and dispose of in appropriate offsite disposal facility. Clean access roads at least once per working day.
 - 1.6.1.2. Departmental Representative may collect soil samples for chemical analyses from traveling surfaces of constructed and existing access routes prior to, during, and upon completion of Work. Excavate and dispose of clean soil contaminated by Contractor's activities at no additional cost or time.

1.7. Dust and Particulate Control



- 1.7.1. Execute Work by methods to minimize raising dust from construction operations.
- 1.7.2. Implement and maintain dust and particulate control measures immediately as determined necessary by Departmental Representative during construction and in accordance with regulations.
- 1.7.3. Provide positive means to prevent airborne dust from dispersing into atmosphere. Use potable water for dust and particulate control.
- 1.7.4. As minimum, use appropriate covers on trucks hauling fine or dusty material. Use watertight vehicles to haul wet materials.
- 1.7.5. Prevent dust from spreading to adjacent property sites.
- 1.7.6. Departmental Representative will stop Work at any time when Contractor's control of dusts and particulates is inadequate for wind conditions present at Site, or when air quality monitoring indicates that release of fugitive dusts and particulates into atmosphere equals or exceeds specified levels.
- 1.7.7. If Contractor's dust and particulate control is not sufficient for controlling dusts and particulates into atmosphere, stop Work. Contractor must discuss procedures that Contractor proposes to resolve problem. Make necessary changes to operations prior to resuming excavation, handling, processing, or other Work that may cause release of dusts or particulates at no additional cost or time.

1.8. Pollution Control

- 1.8.1. Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious toxic substances and pollutants produced by construction operations.
- 1.8.2. Be prepared to intercept, clean up, and dispose of spills or releases that may occur whether on land or water. Maintain materials and equipment required for cleanup of spills or releases readily accessible onsite.
- 1.8.3. Promptly report spills and releases potentially causing damage to environment to:
 - 1.8.3.1. Authority having jurisdiction or interest in spill or release including conservation authority, water supply authorities, drainage authority, road authority, and fire department.
 - 1.8.3.2. Departmental Representative.
- 1.8.4. Take immediate action using available resources to contain and mitigate effects on environment and persons from spill or release.
- 1.8.5. Provide spill response materials including, containers, adsorbent, shovels, and personal protective equipment. Make spill response materials available at all times in which hazardous materials or wastes are being handled or transported. Spill response materials: compatible with type of material being handled.
- 1.8.6. Volatile Organic Compounds (VOC) Control:
 - 1.8.6.1. In addition to requirements of Health and Safety for Contaminated Sites, monitor air quality for volatile organics at perimeter security locations as approved by Departmental Representative, every hour during contaminated

- materials excavation and management activities, and maintain log of air quality readings.
- 1.8.6.2. If air quality monitoring indicates that release of volatile organics in air at site boundary exceeds Level C of Personnel Protective Equipment threshold for air quality, implement corrective actions to control volatile organics.
 - 1.8.6.3. If actions are not sufficient to control release of volatile organics within 1/2 hour of identification of air quality problem, suspend work resulting in excessive volatile organic emissions. Departmental Representative and Contractor to discuss additional methods that Contractor proposes to control release of volatile organics.
 - 1.8.6.4. Make necessary changes at no additional cost to Departmental Representative prior to resuming Work.

1.9. Water Control

- 1.9.1. When working above the water table or as directed by the Departmental Representative maintain excavations free of water.
- 1.9.2. Protect Site from puddling or running water. Grade Site to drain. Provide water barriers as necessary to protect Site from soil erosion.
- 1.9.3. Prevent surface water runoff from leaving work areas.
- 1.9.4. Do not discharge decontaminated water, or surface water runoff, or groundwater which may have come in contact with potentially Contaminated Waste, offsite or to municipal sewers.
- 1.9.5. Prevent precipitation from infiltrating or from directly running off stockpiled materials. Cover stockpiled materials with an impermeable liner during periods of Work stoppage including at end of each working day and as determined by Departmental Representative.
- 1.9.6. Direct surface waters that have not contacted potentially Contaminated Wastes to surface drainage systems.
- 1.9.7. Control surface drainage including ensuring that gutters are kept open, water is not allowed across or over pavements or sidewalks except through accepted pipes or properly constructed troughs, and runoff from unstabilized areas is intercepted and diverted to suitable outlet.
- 1.9.8. Dispose of water in manner not injurious to public health or safety, to property, or to any part of Work completed or under construction.
- 1.9.9. Provide, operate, and maintain necessary equipment appropriately sized to keep above water table excavations, staging pads, and other work areas free from water.

1.10. Erosion and Sediment Control

- 1.10.1. Plan and execute construction by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas, from stockpiles, staging areas, and other work areas. Prevent erosion and sedimentation.
- 1.10.2. Minimize amount of bare soil exposed at one time. Stabilize disturbed soils as quickly as practical. Strip vegetation, regrade, or otherwise develop to minimize erosion. Remove accumulated sediment resulting from construction activity

- from adjoining surfaces, drainage systems, and water courses, and repair damage caused by soil erosion and sedimentation as determined by Departmental Representative.
- 1.10.3. Provide and maintain temporary measures which may include, silt fences, hay or straw bales, ditches, geotextiles, drains, berms, terracing, riprap, temporary drainage piping, sedimentation basins, vegetative cover, dikes, and other construction required to prevent erosion and migration of silt, mud, sediment, and other debris offsite or to other areas of Site where damage might result, or that might otherwise be required by Laws and Regulations. Make sediment control measures available during construction. Place silt fences and/or hay or straw bales in ditches to prevent sediments from escaping from ditch terminations.
 - 1.10.4. Hay or Straw Bale: wire bound or string tied; securely anchored by at least 2 stakes or rebars driven through bale 300 mm to 450 mm into ground; chinked (filled by wedging) with hay or straw to prevent water from escaping between bales; and entrenched minimum of 100 mm into ground.
 - 1.10.5. Silt Fence: assembled, ready to install unit consisting of geotextile attached to driveable posts. Geotextile: uniform in texture and appearance, having no defects, flaws, or tears that would affect its physical properties; and contain sufficient ultraviolet ray inhibitor and stabilizers to provide minimum 2-year service life from outdoor exposure.
 - 1.10.6. Net Backing: industrial polypropylene mesh joined to geotextile at both top and bottom with double stitching of heavy-duty cord, with minimum width of 750 mm.
 - 1.10.7. Posts: sharpened wood, approximately 50 mm square, protruding below bottom of geotextile to allow minimum 450 mm embedment; post spacing 2.4 m maximum. Securely fasten each post to geotextile and net backing using suitable staples.
 - 1.10.8. Plan construction procedures to avoid damage to Work or equipment encroachment onto water bodies or drainage ditch banks. In event of damage, promptly take action to mitigate effects. Restore affected bank or water body to existing condition.
 - 1.10.9. Installation:
 - 1.10.9.1. Construct temporary erosion control items as required.
 - 1.10.9.2. Do not construct bale barriers and silt fence in flowing streams or in swales.
 - 1.10.9.3. Check erosion and sediment control measures weekly after each rainfall; during prolonged rainfall check daily.
 - 1.10.9.4. Bales and/or silt fence may be removed at beginning of work day, replace at end of work day.
 - 1.10.9.5. Whenever sedimentation is caused by stripping vegetation, regrading, or other development, remove it from adjoining surfaces, drainage systems, and watercourses, and repair damage as quickly as possible.
 - 1.10.9.6. Prior to or during construction, Departmental Representative may require installation or construction of improvements to prevent or correct temporary conditions onsite. Improvements may include berms, mulching, sediment

traps, detention and retention basins, grading, planting, retaining walls, culverts, pipes, guardrails, temporary roads, and other measures appropriate to specific condition. Temporary improvements must remain in place and in operation as necessary or until otherwise determined by Departmental Representative.

- 1.10.9.7. Repair damaged bales, end runs, and undercutting beneath bales.
- 1.10.9.8. Unless requested by Departmental Representative, remove temporary erosion and sediment control devices upon completion of Work. Spread accumulated sediments to form a suitable surface for seeding or dispose of, and shape area to permit natural drainage to satisfaction of Departmental Representative. Materials once removed become property of Contractor.
- 1.10.10. Construct fill areas by selective placement to avoid erosive surface silts or clays.
- 1.10.11. Do not disturb existing embankments or embankment protection.
- 1.10.12. Periodically inspect earthwork to detect evidence of erosion and sedimentation; promptly apply corrective measures.
- 1.10.13. If soil and debris from Site accumulate in low areas, storm sewers, roadways, gutters, ditches, or other areas where in Departmental Representative's determination it is undesirable, remove accumulation and restore area to original condition.

1.11. Progress Cleaning

- 1.11.1. Maintain cleanliness of Work and surrounding site to comply with federal, provincial, and local fire and safety laws, ordinances, codes, and regulations.
- 1.11.2. Coordinate cleaning operations with disposal operations to prevent accumulation of dust, dirt, debris, rubbish, and waste materials.

1.12. Final Decontamination

- 1.12.1. Perform final decontamination of construction facilities, equipment, and materials which may have come in contact with potentially Contaminated Wastes prior to removal from Site.
- 1.12.2. Perform decontamination as specified to satisfaction of Departmental Representative. Contractor to perform additional decontamination if required.

1.13. General Removal

- 1.13.1. Remove all waste within Work areas as determined by Departmental Representative.
- 1.13.2. The Contractor becomes the owner of, and is responsible for, any soil or other material once it is loaded on a vehicle, barge, or other vessel for transport offsite.
- 1.13.3. Remove surplus materials and temporary facilities from Site.
- 1.13.4. Dispose waste materials, litter, debris, and rubbish offsite.
- 1.13.5. Do not burn or bury rubbish and waste materials onsite.
- 1.13.6. Do not dispose of volatile or hazardous wastes such as mineral spirits, oil, or paint thinner in storm or sanitary drains.
- 1.13.7. Do not discharge wastes into streams or waterways.

- 1.13.8. Dispose of following materials at appropriate Landfill identified by Contractor and accepted by Departmental Representative:
 - 1.13.8.1. Non-Contaminated Waste.
 - 1.13.8.2. Disposable PPE worn during final cleaning.
- 1.13.9. Minimize generation of Hazardous Waste to maximum extent practicable. Take necessary precautions to avoid mixing Non-Contaminated Waste and Contaminated Waste.
- 1.13.10. Identify and evaluate recycling and reclamation options as alternatives to land disposal, such as:
 - 1.13.10.1. Hazardous Waste recycled in manner constituting disposal;
 - 1.13.10.2. Hazardous Waste burned for energy recovery;
 - 1.13.10.3. Lead-acid battery recycling;
 - 1.13.10.4. Hazardous Waste with economically recoverable precious metals.

1.14. Contaminated Waste Removal

- 1.14.1. Contaminated Waste will be segregated, transported, treated, and disposed into the following classifications as determined by the Departmental Representative:
 - 1.14.1.1. Hazardous Waste – Treatable: This material must be treated at a Treatment Facility prior to disposal at a Disposal Facility unless otherwise indicated or determined by Departmental Representative.
 - 1.14.1.2. Non-Hazardous Waste – Nontreatable: This material must be disposed at a Disposal Facility unless otherwise indicated or determined by Departmental Representative..
- 1.14.2. Contaminated Waste Transport: transport offsite using appropriate containers.
 - 1.14.2.1. Transport material offsite as soon as practical. Do not unreasonably stockpile material onsite.
 - 1.14.2.2. Cover material while being transported to prevent release of airborne dust, vapours, or odours, and to prevent saturation and leachate generation of material.
 - 1.14.2.3. Manifest all material removed from Site documenting movement, interim storage and treatment, and final destination.
- 1.14.3. Contaminated Waste Treatment: treat offsite at Treatment Facility identified by Contractor and accepted Departmental Representative.
 - 1.14.3.1. Treat material offsite as soon as practical. Do not unreasonably stockpile material offsite.
 - 1.14.3.2. Material treated must subsequently be disposed of at a Disposal Facility after treatment.
 - 1.14.3.3. Certificate of Treatment required for all material treated offsite.
 - 1.14.3.4. Treatment includes bioremediation, thermal desorption, and incineration. Treatment does not include blending, mixing, or dilution.
 - 1.14.3.5. If proposed Treatment Facility is not acceptable to Departmental Representative, Contractor must identify an alternate Treatment Facility that is acceptable.
- 1.14.4. Contaminated Waste Disposal: dispose offsite at Disposal Facility identified by Contractor and accepted Departmental Representative.

- 1.14.4.1. Dispose material offsite as soon as practical. Do not unreasonably stockpile material offsite.
- 1.14.4.2. Material sent to a Disposal Facility must be permanently stored at that facility.
- 1.14.4.3. Certificate of Disposal required for all material disposed offsite.
- 1.14.4.4. If proposed Disposal Facility is not acceptable to Departmental Representative, Contractor must identify an alternate Disposal Facility that is acceptable.

1.15. Record Keeping

- 1.15.1. Maintain adequate records to support information provided to Departmental Representative regarding exception reports, annual reports, and biennial reports.
- 1.15.2. Maintain asbestos waste shipment records for minimum of 3 years from date of shipment or longer period required by applicable law or regulation.
- 1.15.3. Maintain bills of lading for minimum of 375 days from date of shipment or longer period required by applicable law or regulation.

2. PART 2 - PRODUCTS

2.1. Not Used

- 2.1.1. Not Used

3. PART 3 - EXECUTION

3.1. Not Used

- 3.1.1. Not Used

END OF SECTION

1. PART 1 – GENERAL

1.1. Measurement Procedures

1.1.1. Not Used

1.2. Action and Informational Submittals

1.2.1. Submit to Departmental Representative submittals listed for review.

1.2.2. Work affected by submittal will not proceed until review is complete.

1.2.3. Submit the following:

1.2.3.1. Health and Safety Plan.

1.2.3.2. Copies of reports or directions issued by Federal and Provincial health and safety inspectors.

1.2.3.3. Copies of incident and accident reports.

1.2.3.4. Complete set of Material Safety Data Sheets (MSDS), and all other documentation required by Workplace Hazardous Materials Information System (WHMIS) requirements.

1.2.3.5. Emergency Procedures.

1.2.4. The Departmental Representative will review the Contractor's site-specific project Health and Safety Plan and emergency procedures, and provide comments to the Contractor within 5 working days after receipt of the plan. Revise the plan as appropriate and resubmit to Departmental Representative.

1.2.5. Medical surveillance: where prescribed by legislation, regulation or safety program, submit certification of medical surveillance for site personnel prior to commencement of Work, and submit additional certifications for any new site personnel to Departmental Representative.

1.2.6. Submission of the Health and Safety Plan, and any revised version, to the Departmental Representative is for information and reference purposes only. It will not:

1.2.6.1. Be construed to imply approval by the Departmental Representative.

1.2.6.2. Be interpreted as a warranty of being complete, accurate and legislatively compliant.

1.2.6.3. Relieve the Contractor of his legal obligations for the provision of health and safety on the project.

1.3. References

1.3.1. Government of Canada:

1.3.1.1. Canada Labour Code - Part II

1.3.1.2. Canada Occupational Health and Safety Regulations

1.3.2. National Building Code of Canada (NBC):

1.3.2.1. Part 8, Safety Measures at Construction and Demolition Sites.

1.3.3. Canadian Standards Association (CSA) as amended:

1.3.3.1. CSA Z797-2009 Code of Practice for Access Scaffold

1.3.3.2. CSA S269.1-1975 (R2003) Falsework for Construction Purposes

- 1.3.3.3. CSA S350-M1980 (R2003) Code of Practice for Safety in Demolition of Structures
 - 1.3.4. Fire Protection Engineering Services, HRSDC:
 - 1.3.4.1. FCC No. 301, Standard for Construction Operations
 - 1.3.4.2. FCC No. 302, Standard for Welding and Cutting
 - 1.3.5. American National Standards Institute (ANSI):
 - 1.3.5.1. ANSI A10.3, Operations – Safety Requirements for Powder-Actuated Fastening Systems
 - 1.3.6. Province of British Columbia:
 - 1.3.6.1. Workers Compensation Act Part 3-Occupational Health and Safety
 - 1.3.6.2. Occupational Health and Safety Regulation
 - 1.3.7. Yukon Territory
 - 1.3.7.1. Occupational Health and Safety Act, R.S.Y.
- 1.4. Regulatory Requirements**
- 1.4.1. Comply with specified codes, acts, bylaws, standards and regulations to ensure safe operations at Site.
 - 1.4.2. In event of conflict between any provision of the above authorities, the most stringent provision will apply. Should a dispute arise in determining the most stringent requirement, the Departmental Representative will advise on the course of action to be followed.
- 1.5. Worker's Compensation Board Coverage**
- 1.5.1. Comply fully with the Workers' Compensation Act, regulations and orders made pursuant thereto, and any amendments up to the completion of the Work.
 - 1.5.2. Maintain Workers' Compensation Board coverage during the term of the Contract, until and including the date that the Certificate of Final Completion is issued.
- 1.6. Compliance with Regulations**
- 1.6.1. PWGSC may terminate the Contract without liability to PWGSC where the Contractor, in the opinion of PWGSC, refuses to comply with a requirement of the Workers' Compensation Act or the Occupational Health and Safety Regulations.
 - 1.6.2. It is the Contractor's responsibility to ensure that all workers are qualified, competent and certified to perform the Work as required by the Workers' Compensation Act or the Occupational Health and Safety Regulations.
- 1.7. Responsibility**
- 1.7.1. Assume responsibility as the Prime Contractor for Work under this contract.
 - 1.7.1.1. Be responsible for health and safety of persons onsite, safety of property onsite and for protection of persons adjacent to Site and environment to extent that they may be affected by conduct of Work.
 - 1.7.1.2. Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable Federal, Provincial, Territorial and local

statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.

1.8. Health and Safety Coordinator

- 1.8.1. The Health and Safety Coordinator must:
- 1.8.1.1. Be responsible for completing all health and safety training, and ensuring that personnel that do not successfully complete the required training are not permitted to enter the Site to perform Work.
 - 1.8.1.2. Be responsible for implementing, daily enforcing, and monitoring the site-specific Health and Safety Plan.
 - 1.8.1.3. Be on Site during execution of Work.

1.9. General Conditions

- 1.9.1. Provide safety barricades, fencing and lights around work site as required to provide a safe working environment for workers and protection for pedestrian and vehicular traffic.
- 1.9.2. Ensure that non-authorized persons are not allowed to circulate in designated construction areas of the work site:
 - 1.9.2.1. Provide appropriate means by use of barricades, fences, warning signs, traffic control personnel, and temporary lighting as required.
 - 1.9.2.2. Fence excavation areas with temporary fence panels (6' height x 10' width minimum). Maintain fence integrity.
 - 1.9.2.3. Secure Site at night time or provide security guard as deemed necessary to protect Site against entry.

1.10. Project/Site Conditions

- 1.10.1. Work at Site will involve contact with contaminants identified in Drawings and Appendices.

1.11. Work Permits

- 1.11.1. Obtain speciality permits related to project before start of Work.

1.12. Filing of Notice

- 1.12.1. The Prime Contractor is to complete and submit a Notice of Project as required by Provincial or Territorial authorities.
- 1.12.2. Provide copies of all notices to the Departmental Representative.

1.13. Health and Safety Plan

- 1.13.1. Conduct a site-specific hazard assessment based on review of Contract Documents, required Work, and project Site. Identify any known and potential health risks and safety hazards.
- 1.13.2. Prepare and comply with a site-specific project Health and Safety Plan based on hazard assessment, including, but not limited to, the following:
 - 1.13.2.1. Primary requirements:
 - 1.13.2.1.1. Contractor's safety policy.

- 1.13.2.1.2. Identification of applicable compliance obligations.
- 1.13.2.1.3. Definition of responsibilities for project safety/organization chart for project.
- 1.13.2.1.4. General safety rules for project.
- 1.13.2.1.5. Job-specific safe work, procedures.
- 1.13.2.1.6. Inspection policy and procedures.
- 1.13.2.1.7. Incident reporting and investigation policy and procedures.
- 1.13.2.1.8. Occupational Health and Safety Committee/Representative procedures.
- 1.13.2.1.9. Occupational Health and Safety meetings.
- 1.13.2.1.10. Occupational Health and Safety communications and record keeping procedures.
- 1.13.2.2. Summary of health risks and safety hazards resulting from analysis of hazard assessment, with respect to site tasks and operations which must be performed as part of the Work.
- 1.13.2.3. List hazardous materials to be brought onsite as required by Work.
- 1.13.2.4. Indicate Engineering and administrative control measures to be implemented at the Site for managing identified risks and hazards.
- 1.13.2.5. Identify personal protective equipment (PPE) to be used by workers.
- 1.13.2.6. Identify personnel and alternates responsible for site safety and health.
- 1.13.2.7. Identify personnel training requirements and training plan, including site orientation for new workers.
- 1.13.3. Develop the plan in collaboration with all subcontractors. Ensure that work/activities of subcontractors are included in the hazard assessment and are reflected in the plan.
- 1.13.4. Revise and update Health and Safety Plan as required, and re-submit to the Departmental Representative.
- 1.13.5. Departmental Representative's review: the review of Health and Safety Plan by Public Works and Government Services Canada (PWGSC) will not relieve the Contractor of responsibility for errors or omissions in final Health and Safety Plan or of responsibility for meeting all requirements of construction and Contract Documents.

1.14. Emergency Procedures

- 1.14.1. List standard operating procedures and measures to be taken in emergency situations. Include an evacuation plan and emergency contacts (ie names/telephone numbers) of:
 - 1.14.1.1. Designated personnel from own company.
 - 1.14.1.2. Regulatory agencies applicable to Work and as per legislated regulations.
 - 1.14.1.3. Local emergency resources.
 - 1.14.1.4. Departmental Representative and site staff.
- 1.14.2. Include the following provisions in the emergency procedures:
 - 1.14.2.1. Notify workers and the first-aid attendant, of the nature and location of the emergency.
 - 1.14.2.2. Evacuate all workers safely.
 - 1.14.2.3. Check and confirm the safe evacuation of all workers.

- 1.14.2.4. Notify the fire department or other emergency responders.
- 1.14.2.5. Notify adjacent workplaces or residences which may be affected if the risk extends beyond the workplace.
- 1.14.2.6. Notify Departmental Representative and site staff.
- 1.14.3. Provide written rescue/evacuation procedures as required for, but not limited to:
 - 1.14.3.1. Work at high angles.
 - 1.14.3.2. Work in confined spaces or where there is a risk of entrapment.
 - 1.14.3.3. Work with hazardous substances.
 - 1.14.3.4. Underground work.
 - 1.14.3.5. Work on, over, under and adjacent to water.
 - 1.14.3.6. Workplaces where there are persons who require physical assistance to be moved.
- 1.14.4. Design and mark emergency exit routes to provide quick and unimpeded exit.
- 1.14.5. Revise and update emergency procedures as required, and re-submit to the Departmental Representative.

1.15. Hazardous Products

- 1.15.1. Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage and disposal of hazardous materials, and regarding labelling and provision of Material Safety Data Sheets (MSDS) acceptable to the Departmental Representative and in accordance with the Canada Labour Code.
- 1.15.2. Where use of hazardous and toxic products cannot be avoided:
 - 1.15.2.1. Advise Departmental Representative beforehand of the product(s) intended for use. Submit applicable MSDS and WHMIS documents as required.
 - 1.15.2.2. In conjunction with Departmental Representative, schedule to carry out Work during "off hours" when tenants have left the building.
 - 1.15.2.3. Provide adequate means of ventilation as required.

1.16. Unforeseen Hazards

- 1.16.1. Should any unforeseen or peculiar safety-related factor, hazard or condition become evident during performance of the Work, immediately stop Work and advise the Departmental Representative verbally and in writing.

1.17. Posted Documents

- 1.17.1. Post legible versions of the following documents onsite:
 - 1.17.1.1. Health and Safety Plan.
 - 1.17.1.2. Sequence of Work.
 - 1.17.1.3. Emergency procedures.
 - 1.17.1.4. Site drawing showing project layout, locations of the first-aid station, evacuation route and marshalling station, and the emergency transportation provisions.
 - 1.17.1.5. Notice of Project.
 - 1.17.1.6. Floor plans or site plans.

- 1.17.1.7. Notice as to where a copy of the Workers' Compensation Act and Regulations are available on the work site for review by employees and workers.
- 1.17.1.8. Workplace Hazardous Materials Information System (WHMIS) documents.
- 1.17.1.9. Material Safety Data Sheets (MSDS).
- 1.17.1.10. List of names of Joint Health and Safety Committee members, or Health and Safety Representative, as applicable.
- 1.17.2. Post all Material Safety Data Sheets (MSDS) onsite, in a common area, visible to all workers and in locations accessible to tenants when Work of this Contract includes construction activities adjacent to occupied areas.
- 1.17.3. Postings should be protected from the weather, and visible from the street or the exterior of the principal construction site shelter provided for workers and equipment, or as accepted by the Departmental Representative.

1.18. Meetings

- 1.18.1. Attend health and safety pre-construction meeting and all subsequent meetings called by the Departmental Representative.
- 1.18.2. Ensure all site personnel attend a daily health and safety "tailgate" or "toolbox" meeting, which will include:
 - 1.18.2.1. Sign-in of all attendees.
 - 1.18.2.2. Planned Work activities and environmental considerations for that shift.
 - 1.18.2.3. Hazards associated with these Work activities, including environmental hazards (eg potential for hypothermia, heat exhaustion, heat stroke).
 - 1.18.2.4. Appropriate job-specific safe work procedures.
 - 1.18.2.5. Required personal protective equipment (PPE).
 - 1.18.2.6. Appropriate emergency procedures.
- 1.18.3. Retain records of all health and safety meetings onsite during Work, and retain as corporate records for a minimum of 7 years after Work is completed.

1.19. Correction of Non-Compliance

- 1.19.1. Immediately address health and safety non-compliance issues identified by the Departmental Representative.
- 1.19.2. Provide Departmental Representative with written report of action taken to correct non-compliance with health and safety issues identified.
- 1.19.3. The Departmental Representative may issue a "stop work order" if non-compliance of health and safety regulations is not corrected immediately or within posted time. The General Contractor/subcontractors will be responsible for any costs arising from such a "stop work order".

1.20. Utility Clearance

- 1.20.1. The Contractor is solely responsible for utility clearance.
- 1.20.2. The Contractor will not rely upon drawings or other information provided with utility locations.

1.21. Personal Protective Equipment Program

- 1.21.1. Submit Personal Protective Equipment (PPE) program addressing:

- 1.21.1.1. Donning and doffing procedures.
- 1.21.1.2. PPE selection based upon Site hazards.
- 1.21.1.3. PPE use and limitations of equipment.
- 1.21.1.4. Work mission duration, PPE maintenance and storage.
- 1.21.1.5. PPE decontamination and disposal.
- 1.21.1.6. PPE inspection procedures prior to, during, and after use.
- 1.21.1.7. Evaluation of effectiveness of PPE program, and limitations during temperature extremes, and other appropriate medical considerations.
- 1.21.1.8. Medical surveillance requirements for personnel assigned to work at Site.
- 1.21.1.9. Frequency and types of air monitoring, personnel monitoring, and environmental sampling techniques and instrumentation to be used, including methods of maintenance and calibration of monitoring and sampling equipment.
- 1.21.1.10. Site control measures employed at Site including site map, site work zones, use of 'buddy system', site communications including site security, alerting means for emergencies, standard operating procedures or safe work practices, and identification of nearest medical assistance.
- 1.21.1.11. Decontamination procedures for both personnel and equipment.
- 1.21.1.12. Emergency response requirements addressing: pre-emergency planning, personnel roles, lines of authority and communication, emergency recognition and prevention, safe distances and places of refuge, site security and control, evacuation routes and procedures, decontamination procedures not covered under decontamination section, emergency medical treatment and first aid, emergency alerting and response procedures, critique of response and follow-up, PPE and emergency equipment, site topography, layout, prevailing weather conditions, and procedures for reporting incidents to local, provincial, or federal agencies.
- 1.21.1.13. Written respiratory protection program for project activities.
- 1.21.1.14. Procedures dealing with heat and/or cold stress.
- 1.21.1.15. Spill containment program if drummed waste material is generated, excavated, stored, or managed onsite.

1.22. Offsite Contingency and Emergency Response Plan

- 1.22.1. Prior to commencing Work involving handling of hazardous materials, develop offsite Contingency and Emergency Response Plan.
- 1.22.2. Plan must provide immediate response to serious site occurrence such as explosion, fire, or migration of significant quantities of toxic or hazardous material from Site.

1.23. Personnel Health, Safety, and Hygiene

- 1.23.1. Training: ensure personnel entering Site are trained in accordance with specified personnel training requirements. Training session must be completed by Health and Safety Officer.
- 1.23.2. Levels of Protection: establish levels of protection for each Work area based on planned activity and location of activity.

- 1.23.3. Personal Protective Equipment:
 - 1.23.3.1. Furnish site personnel with appropriate PPE as specified above. Ensure that safety equipment and protective clothing is kept clean and maintained.
- 1.23.4. Develop protective equipment usage procedures and ensure that procedures are strictly followed by site personnel; include following procedures as minimum:
 - 1.23.4.1. Ensure prescription eyeglasses worn are safety glasses and do not permit contact lenses onsite within work zones.
 - 1.23.4.2. Ensure footwear is steel-toed safety shoes or boots and is covered by rubber overshoes when entering or working in potentially contaminated work areas.
 - 1.23.4.3. Dispose of or decontaminate PPE worn onsite at end of each workday.
 - 1.23.4.4. Decontaminate reusable PPE before reissuing.
 - 1.23.4.5. Ensure site personnel have passed respirator fit test prior to entering potentially contaminated work areas.
 - 1.23.4.6. Ensure facial hair does not interfere with proper respirator fit.
- 1.23.5. Respiratory Protection:
 - 1.23.5.1. Provide site personnel with extensive training in usage and limitations of, and qualitative fit testing for, air purifying and supplied-air respirators in accordance with specified regulations.
 - 1.23.5.2. Develop, implement, and maintain respirator program.
 - 1.23.5.3. Monitor, evaluate, and provide respiratory protection for site personnel.
 - 1.23.5.4. Ensure levels of protection as listed have been chosen consistent with site-specific potential airborne hazards associated with major contaminants identified onsite.
 - 1.23.5.5. In absence of additional air monitoring information or substance identification, retain an industrial hygiene specialist to determine minimum levels of respiratory protection required.
 - 1.23.5.6. Immediately notify Departmental Representative when level of respiratory protection required increases.
 - 1.23.5.7. Ensure appropriate respiratory protection during Work activities. As minimum requirement, ensure that persons entering potentially contaminated work areas are supplied with and use appropriate respiratory protection.
- 1.23.6. Heat Stress/Cold Stress: implement heat stress or cold stress monitoring program as applicable and include in site-specific Health and Safety Plan.
- 1.23.7. Personnel Hygiene and Personnel Decontamination Procedures. Provide minimum as follows:
 - 1.23.7.1. Suitable containers for storage and disposal of used disposable PPE.
 - 1.23.7.2. Potable water and suitable sanitation facility.
- 1.23.8. Emergency and First-Aid Equipment:
 - 1.23.8.1. Locate and maintain emergency and first-aid equipment in appropriate location onsite including first-aid kit to accommodate number of site personnel; portable emergency eye wash; two 9 kg ABC type dry chemical fire extinguishers.
- 1.23.9. Site Communications:
 - 1.23.9.1. Post emergency numbers near site telephones.

- 1.23.9.2. Ensure personnel use of "buddy" system and develop hand signal system appropriate for site activities.
- 1.23.9.3. Provide employee alarm system to notify employees of site emergency situations or to stop Work activities if necessary.
- 1.23.9.4. Furnish selected personnel with 2-way radios.
- 1.23.9.5. Safety Meetings: conduct mandatory daily safety meetings for personnel, and additionally as required by special or Work-related conditions; include refresher training for existing equipment and protocols, review ongoing safety issues and protocols, and examine new site conditions as encountered. Hold additional safety meetings on as-needed basis.

2. PART 2 - PRODUCTS

2.1. Not Used

- 2.1.1. Not Used

3. PART 3 - EXECUTION

3.1. Not Used

- 3.1.1. Not Used

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. Not Used

1.2. Action and Informational Submittals

1.2.1. Within 5 working days after Contract award and prior to mobilization to Site, submit Environmental Protection Plan for review by Departmental Representative.

1.3. Environmental Protection Plan

1.3.1. Ensure Environmental Protection Plan includes comprehensive overview of known or potential environmental issues to be addressed during construction.

1.3.2. Comply with:

1.3.2.1. Federal, Provincial, Municipal, permit, and contractual environmental requirements.

1.3.2.2. Regulatory guidelines and best management practices.

1.3.2.3. Relevant Environmental Management Plans.

1.3.3. Address topics at level of detail commensurate with environmental issue and required construction tasks. Include methods, procedures, and equipment.

1.3.4. Include in Environmental Protection Plan:

1.3.4.1. Names of persons responsible for ensuring adherence to Environmental Protection Plan.

1.3.4.2. Names and qualifications of persons responsible for manifesting material to be removed from Site.

1.3.4.3. Communications Plan identifying emergency contact list and conditions for implementing emergency contact. Emergency contact to include: Contractor emergency response team, Departmental Representative and alternate, Owner and alternate, Federal, Provincial, and Municipal emergency contacts.

1.3.4.4. Traffic Control Plans including measures to reduce erosion of temporary roadbeds by construction traffic, especially during wet weather. Ensure plans include measures to minimize amount of mud transported onto paved public roads by vehicles or runoff. Trucks and truck traffic must comply with all Federal, Provincial, and Municipal laws and regulations.

1.3.4.5. Spill Control Plan including procedures, instructions, and reports to be used in event of unforeseen spill of regulated substance. Identify locations and contents of spill kits.

1.3.4.6. Solid Non-Contaminated Waste Disposal Plan identifying methods and locations for solid waste disposal including clearing waste.

1.3.4.7. Historical, Archaeological, Cultural Resources, Biological Resources and Wetlands Plan that defines procedures for identifying and protecting historical, archaeological, cultural resources, biological resources and wetlands. Include procedures if previously unknown historical, archaeological, cultural resources are discovered during Work.

1.4. Fires

- 1.4.1. Fires and burning of rubbish onsite not permitted.

1.5. Drainage

- 1.5.1. Provide temporary drainage to keep excavations and Site free from water.
- 1.5.2. Ensure water leaving work area entering into waterways, sewer or drainage systems is free of suspended materials.
- 1.5.3. Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authority requirements.

1.6. Site Clearing and Plant Protection

- 1.6.1. Protect trees and plants onsite and adjacent properties as required.
- 1.6.2. Wrap in burlap, trees and shrubs adjacent to construction Work, storage areas and trucking lanes, and encase with protective wood framework from grade level to height of 2 m minimum.
- 1.6.3. Protect roots of designated trees to dripline during excavation and site grading to prevent disturbance or damage. Avoid unnecessary traffic, dumping and storage of materials over root zones.
- 1.6.4. Minimize stripping of topsoil and vegetation.
- 1.6.5. Restrict tree removal to areas required or designated by Departmental Representative.

1.7. Work Adjacent to Waterways

- 1.7.1. Guidelines and Practices
 - 1.7.1.1. Follow practices described in Fisheries and Oceans Canada (September 1993) Land Development Guidelines for the Protection of Aquatic Habitat.
 - 1.7.1.2. Follow practices described in BC Ministry of Environment (March 2004) Standards and Best Practices for Instream Works.
- 1.7.2. General
 - 1.7.2.1. Construction equipment to be operated on land only.
 - 1.7.2.2. Do not use waterway beds for borrow material.
 - 1.7.2.3. Waterways to be free of excavated fill, waste material and debris.
 - 1.7.2.4. Design and construct temporary crossings to minimize erosion to waterways.
 - 1.7.2.5. Do not skid logs or construction materials across waterways.
 - 1.7.2.6. Avoid spawning beds when constructing temporary crossings of waterways.
- 1.7.3. Machinery
 - 1.7.3.1. Ensure all hydraulic machinery to be used instream uses environmentally sensitive hydraulic fluids which are non-toxic to aquatic life, and which are readily or inherently bio-degradable
 - 1.7.3.2. Place oil drip trays or absorbent materials (eg pads) under any heavy equipment working within the Fisheries Sensitive Zone adjacent to the watercourse to ensure there is no potential for contamination of the streambanks or watercourse resulting from leaks or drip off machinery.

- Ensure that there is no potential for oil, grease or other deleterious substances to enter any watercourse, ravine or storm sewer system.
- 1.7.3.3. All equipment and machinery working within 15 meters of any watercourse must be in good working condition (power washed) and free of leaks or excess oil and grease. No fuels, lubricants, construction wastes or other deleterious substances may enter any watercourse at any time.
- 1.7.4. Watercourse Maintenance
- 1.7.4.1. Unless otherwise indicated, care must be taken not to disturb streamside or riparian vegetation. Important in-water aquatic vegetation, such as cattails, will not be disturbed.
- 1.7.4.2. Unless otherwise indicated, there must be no disturbance to the watercourse bank or the root systems of vegetation growing on the watercourse banks.
- 1.7.5. Sediment Control and Deleterious Substances
- 1.7.5.1. All work must be undertaken and completed in such a manner to prevent the release of silt, sediment or sediment laden water, raw concrete or concrete leachate, or any other deleterious substances to any ditch, watercourse, ravine or storm sewer system.
- 1.7.5.2. Construction and excavation wastes, overburden, soil, concrete, concrete leachate, grout, oil, grease or any other substance deleterious to aquatic life must be disposed of or placed in a manner that will prevent their entry into any watercourse, ravine or storm sewer system.
- 1.7.5.3. All excavated material must be removed from the Site or placed in a stable area above the high water mark of the watercourse, as far as possible from the channel, and protected from erosion by mitigating measures including temporary covering exposed soil with: polyethylene tarps, geotextile fabric, hydro-seed or planting vegetation. Material that is moved offsite must be disposed of in such a manner as to prevent its entry into any ditch, watercourse, wetland, floodplain, ravine or storm sewer system.
- 1.7.5.4. Unless otherwise indicated, any fill used must be inert material, free from contaminants and must be placed so that it will not gain entry into any ditch, watercourse, wetland, floodplain, ravine or storm sewer system.
- 1.7.5.5. No fill is to be stockpiled on marsh or marsh fringe areas.
- 1.7.6. Unless otherwise indicated, at a minimum sediment plumes must meet:
- 1.7.6.1. When background is less than or equal to 50 nephelometric turbidity units (NTU), induced turbidity must not exceed 5 NTU above the background value.
- 1.7.6.2. When background is greater than 50 NTU, induced turbidity must not exceed the background value by more than 10% of the background value.
- 1.7.6.3. When background is less than or equal to 100 milligrams per liter (mg/L) non-filterable residue (NFR or TSS), induced NFR or TSS must not exceed 10 mg/L above background value.
- 1.7.6.4. When background is greater than 100 mg/L NFR or TSS, induced NFR or TSS must not exceed the background level by more than 10 % of the background value.

1.8. Pollution Control

- 1.8.1. Maintain temporary erosion and pollution control features installed under this Contract.
- 1.8.2. Control emissions from equipment and plant to local authorities' emission requirements.
- 1.8.3. Prevent sandblasting and other extraneous materials from contaminating air and waterways beyond application area.
- 1.8.4. Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads.
- 1.8.5. Spill kits and containment are to be maintained onsite and ready for deployment in the event of spills, leaks, or other releases.
 - 1.8.5.1. Spill kits are to include sufficient quantities of absorbent material.
 - 1.8.5.2. Spill kits are to be in close proximity to machinery.
 - 1.8.5.3. During the Work there are to be trained and qualified personnel available that are ready to deploy spill kits when necessary.
- 1.8.6. The Contractor is responsible for all costs associated with a spill, leak, or other release of a deleterious substance as a result of their Work. This will include costs of spill response equipment and materials, associated sampling and analysis, and any required restoration of the impacted area.
- 1.8.7. Do not store fuel on the Site other than tanks forming part of the equipment.
- 1.8.8. Contractor to regularly inspect all machinery on the Site to ensure it is in good repair and free of leaks.

1.9. Notification

- 1.9.1. Departmental Representative will notify Contractor in writing of observed noncompliance with Federal, Provincial or Municipal environmental laws, regulations, permits, or other environmental procedure violations.
- 1.9.2. Contractor: after receipt of such notice, inform Departmental Representative of proposed corrective action and take such action for acceptance by Departmental Representative.
 - 1.9.2.1. Do not take action until after receipt of written acceptance by Departmental Representative.
- 1.9.3. Departmental Representative will issue stop order of Work until satisfactory corrective action has been taken.
- 1.9.4. No time extensions granted or equitable adjustments allowed to Contractor for such suspensions.

2. PART 2 - PRODUCTS

2.1. Not Used

- 2.1.1. Not Used

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. Not Used

1.2. Action and Informational Submittals

1.2.1. Not Used

1.3. Access and Delivery

1.3.1. Only the designated entrance may be used for access to Site.

1.3.1.1. Maintain for duration of Contract.

1.3.1.2. Make good damage resulting from Contractor's use.

1.3.2. Use of the Site will be granted to the Contractor through the Departmental Representative.

1.3.2.1. Parking of private vehicles is not permitted on the Site.

1.4. Installation and Removal

1.4.1. Provide temporary utilities controls in order to execute work expeditiously.

1.4.2. Remove from site all such work after use.

1.5. Dewatering

1.5.1. Provide temporary drainage and pumping facilities to keep excavations and Site free from standing water.

1.6. Storage Facilities

1.6.1. Storage space will be limited to the area of construction.

1.7. Power

1.7.1. Power is not available at existing Site and must be supplied at no cost.

1.8. Water Supply

1.8.1. Water supply is not available at existing Site and must be supplied at no cost.

1.9. Sanitary Facilities

1.9.1. Sanitary facilities are not available at existing Site and must be supplied at no cost.

1.10. Removal of Temporary Facilities

1.10.1. Remove temporary facilities from Site when determined by the Departmental Representative.

1.11. Signs and Notices

1.11.1. Signs and notices for safety and instruction will be in both official languages or graphic symbols conforming to CAN/CSA-Z321.

1.11.2. Maintain accepted signs and notices in good condition for duration of project, and dispose of offsite on completion of project or when determined by Departmental Representative.

1.12. Fire Protection

1.12.1. Provide and maintain temporary fire protection equipment during performance of Work required by governing codes, regulations and bylaws.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. Not Used

1.2. Action and Informational Submittals

1.2.1. Not Used

1.3. Products/Material and Equipment

- 1.3.1. Use NEW products/material and equipment unless otherwise specified. The term "products" is referred to throughout the specifications.
- 1.3.2. Use products of 1 manufacturer for material and equipment of the same type or classification unless otherwise specified.
- 1.3.3. Unless otherwise specified, comply with manufacturer's latest printed instructions for materials and installation methods.
- 1.3.4. Notify Departmental Representative in writing of any conflict between these specifications and manufacturer's instructions. Departmental Representative will designate which document is to be followed.
- 1.3.5. Deliver, store and maintain packaged material and equipment with manufacturer's seals and labels intact.
- 1.3.6. Prevent damage, adulteration and soiling of products during delivery, handling and storage. Immediately remove rejected products from Site.
- 1.3.7. Store products in accordance with suppliers' instructions.

1.4. Quality of Products

- 1.4.1. Products, materials and equipment (referred to as products) incorporated into Work will be new, not damaged or defective, and of the best quality (compatible with the specifications) for the purpose intended. If requested, furnish evidence as to type, source and quality of the products provided.
- 1.4.2. Defective products will be rejected regardless of previous inspections.
 - 1.4.2.1. Inspection does not relieve responsibility, but is precaution against oversight or error.
 - 1.4.2.2. Remove and replace defective products at own expense and be responsible for delays and expenses caused by rejection.
- 1.4.3. Retain purchase orders, invoices and other documents to prove that all products utilized in this Contract meet the requirements of the specifications. Produce documents when requested by the Departmental Representative.
- 1.4.4. Should any dispute arise as to quality or fitness of products, the decision rests strictly with the Departmental Representative based upon the requirements of the Contract Documents.
- 1.4.5. Unless otherwise indicated, maintain uniformity of manufacture for any particular or like item throughout the Site.

- 1.4.6. Permanent labels, trademarks and nameplates on products are not acceptable in prominent locations, except where required for operating instructions, or when located in mechanical or electrical rooms.

1.5. Availability of Products

- 1.5.1. Immediately upon signing the Contract, review product delivery requirements and anticipate foreseeable supply delays for any items.
- 1.5.2. If delays in supply of products are foreseeable, notify Departmental Representative of such in order that substitutions or other remedial action may be authorized in ample time to prevent delay in performance of the Work.
- 1.5.3. In event of failure to notify Departmental Representative at the start of Work and should it subsequently appear that the Work may be delayed for such reason, the Departmental Representative reserves the right to substitute more readily available products of similar character, at no increase in either the Contract price or the Contract time.

1.6. Manufacturer's Instructions

- 1.6.1. Unless otherwise indicated, install or erect products in accordance with the manufacturer's instructions.
- 1.6.1.1. Do not rely on labels or enclosures provided with products.
- 1.6.1.2. Obtain written instructions directly from the manufacturer.
- 1.6.2. Notify Departmental Representative in writing of conflicts between the specifications and the manufacturer's instructions so that the Departmental Representative may establish the course of action.
- 1.6.3. Improper installation or erection of products, due to failure in complying with these requirements, authorizes the Departmental Representative to require removal and re-installation at no increase in either the Contract price of the Contract time.

1.7. Contractor's Options for Selection of Products for Tendering

- 1.7.1. Products are specified by "Prescriptive" specifications: select any product meeting or exceeding specifications.
- 1.7.2. Products specified under "Acceptable Products" (used for complex Mechanical or Electrical Systems): select any one of the indicated manufacturers, or any other manufacturer meeting or exceeding the Prescriptive specifications and indicated Products.
- 1.7.3. Products specified by performance and referenced standard: select any product meeting or exceeding the referenced standard.
- 1.7.4. Products specified to meet particular design requirements or to match existing materials: use only material specified Approved Product. Alternative products may be considered provided full technical data is received in writing by Departmental Representative in accordance with "Special Instructions to Tenderers".
- 1.7.5. When products are specified by a referenced standard or by Performance specifications, upon request of Departmental Representative obtain from

manufacturer and independent laboratory report showing that the product meets or exceeds the specified requirements.

1.8. Substitution After Contract Award

- 1.8.1. No substitutions are permitted without prior written approval of the Departmental Representative.
- 1.8.2. Proposals for substitution may only be submitted after Contract award. Such request must include statements of respective costs of items originally specified and the proposed substitution.
- 1.8.3. Proposals will be considered by the Departmental Representative if:
 - 1.8.3.1. products selected by tenderer from those specified are not available;
 - 1.8.3.2. delivery date of products selected from those specified would unduly delay completion of Contract, or
 - 1.8.3.3. alternative product to that specified, which is brought to the attention of considered by Departmental Representative as equivalent to the product specified, and will result in a credit to the Contract amount.
- 1.8.4. Should the proposed substitution be accepted either in part or in whole, assume full responsibility and costs when substitution affects other Work on the project. Pay for design or drawing changes required as result of substitution.
- 1.8.5. Amounts of all credits arising from approval of the substitutions will be determined by the Departmental Representative, and the Contract price will be reduced accordingly.

1.9. Storage, Handling and Protection

- 1.9.1. Handle and store products in manner to prevent damage, adulteration, deterioration and soiling and in accordance with manufacturer's instructions when applicable.
- 1.9.2. Store packaged or bundled products in original and undamaged condition with manufacturer's seal and labels intact. Do not remove from packaging or bundling until required in Work.
- 1.9.3. Store products subject to damage from weather in weatherproof enclosures.
- 1.9.4. Remove and replace damaged products at own expense and to satisfaction of Departmental Representative.

1.10. Transportation

- 1.10.1. Pay costs of transportation of products required in performance of Work.

1.11. Quality of Work

- 1.11.1. Ensure Quality of Work is of highest standard, executed by workers experienced and skilled in respective duties for which they are employed. Immediately notify Departmental Representative if required Work is such as to make it impractical to produce required results.
- 1.11.2. Do not employ anyone unskilled in their required duties.
- 1.11.3. Decisions as to standard or fitness of Quality of Work in cases of dispute rest solely with Departmental Representative, whose decision is final.

1.12. Coordination

1.12.1. Ensure cooperation of workers in laying out Work. Maintain efficient and continuous supervision.

1.13. Remedial Work

1.13.1. Perform remedial work required to repair or replace parts or portions of Work identified as defective or unacceptable. Coordinate adjacent affected Work as required.

1.13.2. Perform remedial work by specialists familiar with materials affected. Perform in a manner to neither damage nor put at risk any portion of Work.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

1.1.1. Not Used

1.2. Action and Informational Submittals

1.2.1. Not required

1.3. As-Built Documents

Not required.

1.4. Completion

1.4.1. Submit a written certificate that the following have been performed:

1.4.1.1. Work has been completed and inspected for compliance with the Contract Documents.

1.4.1.2. Defects have been corrected and deficiencies have been completed.

1.4.1.3. Work is complete and ready for final inspection.

2. PART 2 - PRODUCTS

2.1. Not Used

2.1.1. Not Used

3. PART 3 - EXECUTION

3.1. Not Used

3.1.1. Not Used

END OF SECTION

1. PART 1 - GENERAL

1.1. Measurement Procedures

- 1.1.1. Mobilization will be paid in accordance with lump sum price established for mobilizing all necessary equipment, materials, supplies, facilities, and personnel to Site. Includes pre-mobilization submittals, insurance, bonding, and permits.
- 1.1.2. Demobilization will be paid in accordance with lump sum price established for demobilizing all equipment, materials, supplies, facilities, and personnel from the Site, decontaminating all equipment prior to removal from Site, preparing Site for closure, as-built documents, and completion submittals.
- 1.1.3. Site Facilities Provision will be paid in accordance with lump sum price established to temporarily provide, design, and erect all infrastructure, including temporary structures and facilities, sanitary facilities, roadways, security, and services.
- 1.1.4. Site Facilities Operation will be paid in accordance with lump sum price established for time to operate and maintain all infrastructure, including temporary structures and facilities, sanitary facilities, roadways, security, and services. Includes meetings, progress submittals, traffic control, health and safety, environmental protection, and cleaning. Includes living out allowances, including travel, room and board.
- 1.1.5. Site Fencing will be paid in accordance with lump sum price established to load, transport and return to Super Save Propane and MacPherson Rentals in Whitehorse YK.
- 1.1.6. Standby will be paid in accordance with unit rate price established for time Work is unable to proceed due to non-specified delays caused solely by the Departmental Representative. Reviews, sampling, or other work conducted by Departmental Representative which have a time duration identified will not result in an increase in either the Contract price or the Contract time.
- 1.1.7. Site Preparation will be paid in accordance with lump sum price established to prepare the Site for planned construction works, including any snow clearing, and utility location, rerouting, and protection. Includes Removal of any incidental or generated material.
- 1.1.8. UST Removal and Disposal will be paid in accordance with lump sum price established for the loading, transportation and disposal of two former USTs temporarily stored onsite, as specified in the drawings. Certificates of destruction are required.
- 1.1.9. Non-Hazardous Waste Loading & Transport will be paid in accordance with unit rate price established for weight identified at receiving offsite facility. Transport includes loading, hauling, and unloading at the receiving facility for; soil stored in the contaminated soil storage areas, the soil used for construction of the walls of the storage areas, and soil removed to 0.5 metres below grade in the area underlying the soil storage areas. If material is taken to a Treatment Facility before a Disposal Facility, payment includes Transport to both Treatment Facility and Disposal Facility.

- 1.1.10. Non-Hazardous Waste Disposal will be paid in accordance with unit rate price established for weight identified in Certificates of Disposal.
- 1.1.11. Backfilling will be paid in accordance with unit rate price established for the compacted and graded volume that is required to backfill the soil removed from below the contaminated soil storage areas. Backfilling includes transport to Site, onsite transport, placing, grading and compacting. Tracking will use truck counts or other method acceptable to Departmental Representative.
- 1.1.12. Restoration will be paid in accordance with lump sum price established for restoration of the soil storage areas and any other areas disturbed by the work.
- 1.1.13. Site Closure will be paid in accordance with lump sum price established to restore the Site to make suitable for post-remediation use. Includes Removal of any incidental or generated material.
- 1.1.14. Submittals will be paid in accordance with lump sum price established to prepare and submit documents and drawings in accordance with the specifications.

1.2. Action and Informational Submittals

- 1.2.1. Imported fill material: 5 working days prior to bringing material onto Site, submit documentation verifying that material is acceptable for import and intended use, including:
 - 1.2.1.1. Grain-size distribution information as required.
 - 1.2.1.2. Chemical analyses for Potential Contaminants of Concern, including metals.
 - 1.2.1.3. Testing to be performed and reported by an accredited laboratory at sufficient frequency to characterize all material imported to Site. Test using appropriate guidelines and practices.
 - 1.2.1.4. Perform additional as required by Departmental Representative.
 - 1.2.1.5. Facilitate testing by Departmental Representative.

1.3. Sequencing

- 1.3.1. If floating free phase substance is present, remove free phase from saturated soil without further contaminating soil or groundwater prior to commencing other construction Work.
- 1.3.2. Decontaminate equipment used in construction procedures before removing equipment from job site.

1.4. Maintenance

- 1.4.1. Access roads:
 - 1.4.1.1. Maintain Access Roads as follows:
 - 1.4.1.1.1. Obtain permission to use existing roads to access Site.
 - 1.4.1.1.2. Maintain and clean roads for duration of Work.
 - 1.4.1.1.3. Control mud and dust from road.
 - 1.4.1.1.4. Repair damage incurred from use of roads.
 - 1.4.1.1.5. Provide photographic documentation of roads used by construction vehicles before, during and after Work.

1.5. Existing Conditions

1.5.1. Buried services:

- 1.5.1.1. Before commencing Work establish location of buried services on and adjacent to Site.
- 1.5.1.2. Arrange with appropriate authority for relocation of buried services that interfere with execution of Work: pay costs of relocating services.
- 1.5.1.3. Remove obsolete buried services within 2 m of foundations: cap cut-offs.
- 1.5.1.4. Size, depth and location of existing utilities and structures as indicated are for guidance only. Completeness and accuracy are not guaranteed.
- 1.5.1.5. Prior to beginning Work that may disrupt utilities, notify applicable Departmental Representative and authorities having jurisdiction and establish location and state of use of buried utilities and structures. Clearly mark such locations to prevent disturbance during Work.
- 1.5.1.6. As appropriate, confirm locations of buried utilities by independent utility locator and hand test excavations and/or soil hydrovac methods.
- 1.5.1.7. Maintain and protect from damage, water, sewer, gas, electric, telephone and other utilities and structures encountered.
- 1.5.1.8. Record location of maintained, re-routed and abandoned underground lines.
- 1.5.1.9. Confirm locations of recent excavations adjacent to area of excavation.
- 1.5.2. Existing buildings and surface features:
 - 1.5.2.1. Conduct condition survey of existing buildings, trees and other plants, lawns, fencing, service poles, wires, rail tracks, pavement, roads, survey bench marks, monuments and other features which may be affected by Work.
 - 1.5.2.2. Protect existing buildings and surface features from damage while Work is in progress. In event of damage, immediately make repair.
 - 1.5.2.3. Where required for excavation, cut roots or branches.

2. PART 2 - PRODUCTS

2.1. Fill Materials

- 2.1.1. Imported fill material to meet the following minimum requirements:
 - 2.1.1.1. Imported fill material to be granular aggregate composed of inert, clean, tough, durable particles of crushed rock, gravel, sand and fines capable of withstanding the deleterious effects of exposure to water, freeze-thaw, handling, spreading and compacting. The aggregate particles will be uniform in quality and free from clay lumps, wood and free from an excess of flat or elongated pieces.
 - 2.1.1.2. Imported fill material must meet the standards in Column II (Soil Relocation to Non Agricultural Land), Schedule 7 (Standards Triggering Contaminated Soil Relocation Agreements), BC Contaminated Sites Regulation. Any backfill material which has a discrete sample exceeding these standards will be removed and replaced by the Contractor, and an alternate source of backfill must be provided.

- 2.1.1.3. Analytical results of sampling of fill material demonstrating compliance is to be provided by the Contractor to the Department Representative.
- 2.1.1.4. The costs of collecting and analyzing the required samples will be covered by the contractor.
- 2.1.2. The contractor must provide the analytical results of the backfill samples before fill material can be brought on site.

2.2. Equipment

- 2.2.1. Temporary barriers and enclosures as required.
- 2.2.2. Leave equipment and machinery running only while in use, except where extreme temperatures prohibit shutting down.
- 2.2.3. Trucks:
 - 2.2.3.1. Cleaned meticulously between loads of contaminated soil and clean fill.
 - 2.2.3.2. Cleaned meticulously at end of work day.
 - 2.2.3.3. Cover truck bodies with tarpaulins during transportation.
 - 2.2.3.4. Use watertight truck bodies for transporting contaminated soil.
- 2.2.4. Safety equipment.

3. PART 3 - EXECUTION

3.1. Examination

- 3.1.1. Site Verification of Conditions
 - 3.1.1.1. Determine condition of existing Site and requirements to make the Site suitable for Work.

3.2. Site Preparation

- 3.2.1. Mobilize all necessary equipment, materials, and personnel to the Site.
- 3.2.2. Removal of snow from site to allow access for Work.
- 3.2.3. Construct, operate and maintain all infrastructure, including temporary structures and facilities, sanitary facilities, roadways, security, and services.
- 3.2.4. Remove obstructions, ice and snow, from surfaces to be worked.
- 3.2.5. Protection:
 - 3.2.5.1. Protect existing features with temporary barriers and enclosures and applicable local regulations.
 - 3.2.5.2. Keep excavations clean, free of standing water, and loose soil.
 - 3.2.5.3. Where soil is subject to significant volume change due to change in moisture content, cover and protect.
 - 3.2.5.4. Protect natural and man-made features required to remain undisturbed. Unless otherwise required or located in an area to be occupied by new construction, protect existing trees from damage.
 - 3.2.5.5. Protect buried services that are required to remain undisturbed.
 - 3.2.5.6. Protect existing monitoring wells such that they can be used for future monitoring of subsurface conditions.

- 3.2.5.7. Manage recovered water according to contamination level and provincial/municipal/territory regulations.
- 3.2.5.8. Provide temporary structures to divert flow of surface waters from excavation.
- 3.2.5.9. Provide safety measures to ensure worker and public safety.

3.3. Non-Hazardous Waste Loading and Transport

- 3.3.1. Load, transport and unload all Non-Hazardous Waste at offsite receiving facility based on contaminants as shown in the appendices. This includes:
 - 3.3.1.1. Contaminated soil stored in the soil storage areas
 - 3.3.1.2. Soil used for the construction of the soil storage areas
 - 3.3.1.3. Soil underlying the soil storage areas to a depth of 0.5 metres
- 3.3.2. Material must be weighed by a scale certified by Measurement Canada. Certification and all weigh scale slips to be provided to Departmental Representative.
 - 3.3.2.1. Departmental Representative may require testing of weigh scale, or require a different weigh scale be used at no additional cost or time.

3.4. Non-Hazardous Waste Treatment and Disposal

- 3.4.1. Treat appropriate Contaminated Waste at offsite Treatment Facility based on contaminants as determined by Departmental Representative.
- 3.4.2. Material must be weighed by a scale certified by Measurement Canada. Certification and all weigh scale slips to be provided to Departmental Representative.
 - 3.4.2.1. Departmental Representative may require testing of weigh scale, or require a different weigh scale be used at no additional cost or time.

3.5. Backfilling

- 3.5.1. Do not proceed with backfilling operations until completion of following:
 - 3.5.1.1. Departmental Representative has inspected and accepted excavation limits based on survey data and confirmatory sampling results.
 - 3.5.1.2. Departmental Representative has inspected and accepted backfill material. Suspect backfill material may be sampled for geotechnical and environmental quality. Backfill material sampling may take up to 5 working days. No standby charges or delays to be incurred for backfill material sampling.
 - 3.5.1.3. Departmental Representative has inspected and accepted compaction results for previous lift.
 - 3.5.1.4. Department Representative has received and accepted the analytical results from sampling of fill material. Areas to be backfilled to be free from debris, snow, ice, and water.
- 3.5.2. Do not use backfill material which is frozen or contains ice, snow or debris.
- 3.5.3. Place backfill material in uniform layers not exceeding 300 mm compacted thickness. Compact each layer before placing succeeding layer.
- 3.5.4. Notify Departmental Representative when final backfill grade is reached.

3.6. Cleaning

- 3.6.1. Waste Management: separate waste materials for reuse and recycling.
- 3.6.2. Ensure public waterways, storm and sanitary sewers remain free of waste and volatile materials disposal.

3.7. Restoration

- 3.7.1. Upon completion of Work, remove Non-Contaminated Waste materials and debris, trim slopes, and correct defects as determined by Departmental Representative.
- 3.7.2. Reinstate lawns and other landscaped areas to elevation which existed before excavation. Plant vegetation similar to pre-existing.
- 3.7.3. Reinstate non-landscaped areas to elevation which existed before excavation unless otherwise required. Revegetate disturbed areas, including excavated area and stockpile area, with fertilizer and seed mixture appropriate for location. Reference current version of BC Ministry of Transportation and Infrastructure Standard Specifications for Highway Construction, Section "Revegetation Seeding". No overspray is to occur onto equipment, roadways, utilities, structures, waterbodies, or environmentally sensitive areas.
- 3.7.4. Reinstate surface grading to give Site same appearance as before remediation Work. Provide a minimum slope of 1 Horizontal : 1 Vertical as accepted by Departmental Representative.
- 3.7.5. Reinstate pavements and sidewalks disturbed by excavation to thickness, structure and elevation which existed before excavation.
- 3.7.6. Protect newly graded areas from traffic and erosion and maintain free of trash or debris.

3.8. Site Closure

- 3.8.1. Clean permanent access roads of contamination resulting from project activity as required or at request of Departmental Representative.
- 3.8.2. Decontaminate equipment used in construction processes and remove from sites at end of construction activities.
- 3.8.3. Remove all temporary structures.
- 3.8.4. Demobilize all necessary equipment, materials, and personnel from Site.
- 3.8.5. Remove all Non-Contaminated Waste generated from Work and dispose at a Landfill.

END OF SECTION

**Appendix 1 – Analytical Table for Soil Stockpile
Classification Samples**



**Lower Post Contaminated Stockpile Classification Samples
Comparison to CCME and CSR Residential Standards, November 2013**

Area ID	CCME RL	BC CSR RL	Mobile Lab			
Station ID			201-1	203	204	207
Field label						
Duplicate ID						
Date/Time						
Lab report ID						
Consultants						
Depth (m)						
Conventionals						
Moisture content (%)			5.2	6.58	16	12
pH - Soluble (2:1)	6 to 8					
Monocyclic Aromatic Hydrocarbons						
Benzene	0.011	0.04		<1	<0.0050	<0.0050
Ethylbenzene	0.082	1		<1	0.50	0.38
Styrene	5	5			<0.030	<0.030
Toluene	0.37	1.5		<1	0.042	<0.063 (1)
m+p-Xylene				<1	0.79	2.5
o-Xylene				<1	0.66	3.5
Total Xylenes (total)	11	5		<1	1.4	6
Metals						
Soluble (2:1) pH	6 to 8		8.58			8.05
Aluminum			6170			4750
Antimony	20	20	0.54			0.65
Arsenic	12	15	7.25			5.43
Barium	500	400	206			136
Beryllium	4	4	<0.40			<0.40
Bismuth			<0.10			<0.10
Cadmium	10	3	0.471			0.496
Calcium			58000			58200
Chromium	64	60	17.5			13.8
Cobalt	50	50	6.47			4.29
Copper	63	150	14.2			13.2
Iron			16600			13300
Lead	140	500	6.32			5.31
Lithium			6			5.7
Magnesium			15100			14400
Manganese			256			255
Mercury	6.6	15	0.051			0.065
Molybdenum	10	10	0.88			0.77
Nickel	50	100	30.1			19.8
Selenium	1	3	<0.50			<0.50
Silver	20	20	0.156			0.100
Sodium			<100			<100
Strontium			179			164
Thallium	1		0.077			0.095
Tin	50	50	0.18			0.15
Titanium			279			216
Uranium	23		0.754			0.914
Vanadium	130	200	35.5			27.8
Zinc	200	450	75.5			66.3
Zirconium			2.7			2.72
Nutrients						
Phosphorus			511			876
Potassium			658			471



Lower Post Contaminated Stockpile Classification Samples
Comparison to CCME and CSR Residential Standards, November 2013

Area ID	CCME RL	BC CSR RL	Mobile Lab			
Station ID			201-1	203	204	207
Field label						
Duplicate ID						
Date/Time			2013-10-23	2013-10-25	2013-10-27	2013-11-02
Lab report ID			HX5892		HZ1572	IA3965
Consultants						
Depth (m)						
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.28		<0.0050		<0.0050	<0.60 (1)
Acenaphthylene	320		<0.0050		<0.050 (1)	<0.28 (1)
Anthracene			<0.0040		<0.0040	<0.020 (1)
Benzo[a]anthracene	1	1	<0.020		<0.020	<0.020
Benzo[a]pyrene	0.6	1	<0.020		<0.020	<0.020
Benzo[a]pyrene equivalency						
Benzo[b]fluoranthene	1	1				<0.020
Benzo[b+j]fluoranthene		1	<0.020		<0.020	<0.020
Benzo[ghi]perylene			<0.050		<0.050	<0.050
Benzo[k]fluoranthene	1	1	<0.020		<0.020	<0.020
Chrysene			<0.020		<0.020	<0.020
Dibenzo[a,h]anthracene	1	1	<0.050		<0.050	<0.050
Fluoranthene	15.4		<0.020		<0.020	<0.020
Fluorene	0.25		0.15		0.17	0.8
Indeno[1,2,3-cd]pyrene	1	1	<0.050		<0.050	<0.050
2-Methylnaphthalene			0.57		2	3.6
Naphthalene	0.013	5	<0.010		0.8	0.93
Phenanthrene	0.046	5	0.047		0.061	0.39
Pyrene	7.7	10	<0.020		<0.020	<0.020
Low molecular weight PAHs			0.76		3	5.8
High molecular weight PAHs			<0.050		<0.050	<0.050
Total PAHs			0.76		3	5.8
Total PAHs IACR (Calculated)	1					0.31
Total PAHs TEQ (Calculated)	0.6					
Petroleum Hydrocarbons						
EPH (C10-C19)		1000	1890	310	2200	7940
EPH (C19-C32)		1000	<100	<200	<100	<100
LEPH (calculated parameters)		1000	1890		2200	7930
HEPH (calculated parameters)		1000	<100		<100	<100
Hydrocarbons C6-C10						
VH C6-C10						
VPH (VH6-10) minus BTEX		200				
F1 (C6-C10) minus BTEX (calculated parameter)	210				310	2400
F2 (C10-C16)	150				2800	9000
F3 (C16-C34)	300				170	1000
F4 (C34-C50)	2800				<10	36
Reached Baseline at C50						Yes
Volatile Organic Compound						
Methyl tert-butyl ether						<0.10
Other						
1,4-Difluorobenzene (%)						

Notes

All units in µg/g, unless otherwise noted.
 "-" indicates that there is no applicable standard or analyses were not performed.
 Red cells indicates parameter exceeds CCME RL. (Current as of 27-August-2013)
 Bold indicates parameter exceeds BC CSR RL. (Current as of 27-August-2013)
 (1) detection limit increased due to sample matrix interference

**ABORIGINAL AFFAIRS AND
NORTHERN DEVELOPMENT CANADA
LOWER POST, BC
SOIL DISPOSAL PROJECT**

DRAWING LIST	
DRAWING NUMBER	DRAWING TITLE
00069-IT-SD-00	COVER SHEET AND DRAWING INDEX
00069-IT-SD-01	SITE LOCATION
00069-IT-SD-02	SITE LAYOUT SHOWING SOIL STOCKPILE LOCATIONS

NOT FOR CONSTRUCTION

 Public Works & Government Services DISTRIBUTION LIST: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA ABORIGINAL AFFAIRS & NORTHERN DEVELOPMENT CANADA CORE 6 ENVIRONMENTAL FRANZ ENVIRONMENTAL INC.	 	DRAWN BY: CB CHECKED BY: JT APPROVED BY: JT SCALE: 1:1500	SOIL DISPOSAL PROJECT, LOWER POST, BC COVER SHEET AND DRAWING INDEX PROJECT No. 00069-01 DRAWING No. 00069-SD-A3-00 DATE: November 2013	CLIENT PROJECT NUMBER: XXXXXXXX SHEET 1 OF 3 REV. A
		No. DATE A Nov 2013 ISSUED FOR REVIEW REVISION	CB JT DR CH	



LEGEND

- SITE BOUNDARY
- ▬ PARCELS
- ▬ PAVED ROADS
- ▬ GRAVEL ROADS

NOTES

1. SCALE AND LOCATIONS ARE APPROXIMATE AND ARE BASED ON FRANZ ENVIRONMENTAL, FIGURE 1, MONITORING WELL SUMMARY, PROJECT MUNCHO LAKE MAINTENANCE CAMP DATA COLLECTION FOR RISK ASSESSMENT, DATED JULY 2, 2013.

NOT FOR CONSTRUCTION

SCALE 1:1500
(metres)
0 30 60

No.	DATE	REVISION	DR	CH	ISSUED FOR REVIEW	CB	JT	Public Works & Government Services Canada DISTRIBUTION LIST PUBLIC WORKS AND GOVERNMENT SERVICES CANADA ADDITIONAL AFFAIRS & NORTHERN DEVELOPMENT CANADA CORE ENVIRONMENTAL FRANZ ENVIRONMENTAL INC.	 	PROJECT N°:	00069-01	DATE:	November 2013	DRAWING N°:	00069-SD-A3-01	CLIENT PROJECT N°/REF:	XXXXXXXX	SHEET 2 OF 2	REV. A
										SCALE:	1:250	APPROVED BY:	JT	CHECKED BY:	JT	DRAWN BY:	CB	SOIL DISPOSAL PROJECT, LOWER POST, BC	



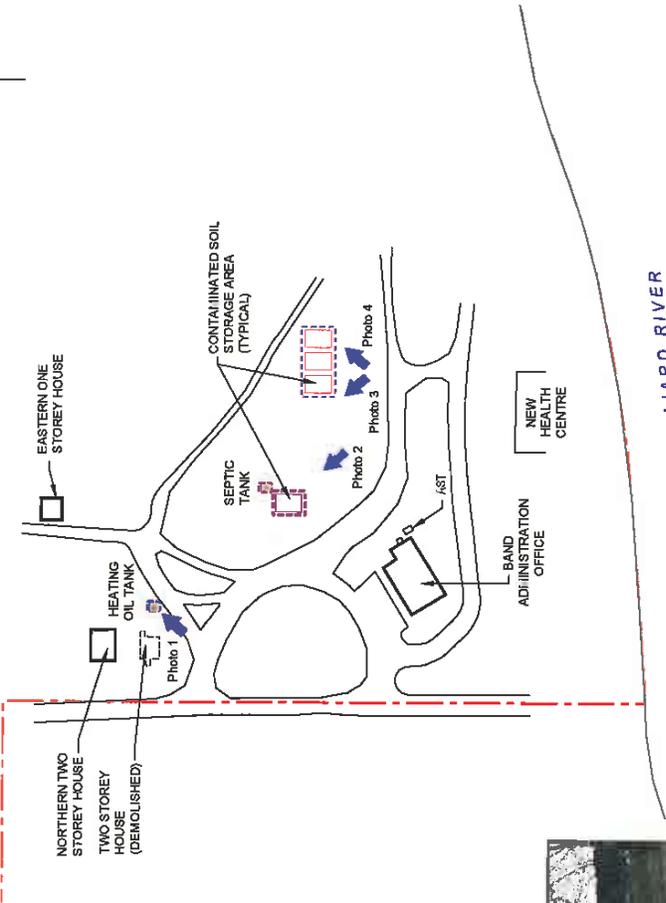
PHOTO 2: VIEW OF SOIL BERM 1 AND SEPTIC TANK FACING NORTHWEST



PHOTO 3: VIEW OF SOIL BERMS SATURATED SOIL FACING NORTHWEST



PHOTO 4: VIEW OF SOIL BERMS SATURATED SOIL FACING NORTHEAST



LIARD RIVER



NOT FOR CONSTRUCTION

LEGEND

- FORMER BUILDING
- ROAD
- RESERVE BOUNDARY
- PHOTO PERSPECTIVE

NOTES

1. DRAWING BASED ON ERA FIGURE 4, REMEDIAL OPTIONS STUDY, DATED MARCH 25, 2013.



PHOTO 1: VIEW OF UST FACING NORTHEAST

			DRAWN BY: CB CHECKED BY: GB APPROVED BY: JT SCALE: 1:2000	PROJECT No. 00069-01 DATE: November 2013 DRAWING No. 00069-SD-A3-02	CLIENT: SOIL DISPOSAL PROJECT, LOWER POST, BC PROJECT: X000000 SHEET 3 OF 3 REV. A
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA ABORIGINAL AFFAIRS & NORTHERN DEVELOPMENT CANADA CORE 6 ENVIRONMENTAL FRANZ ENVIRONMENTAL INC.			SITE LAYOUT SHOWING SOIL STOCKPILE LOCATIONS		
No. A DATE: Nov 2013	REVISION: DR CH	ISSUED FOR REVIEW: CB JT			