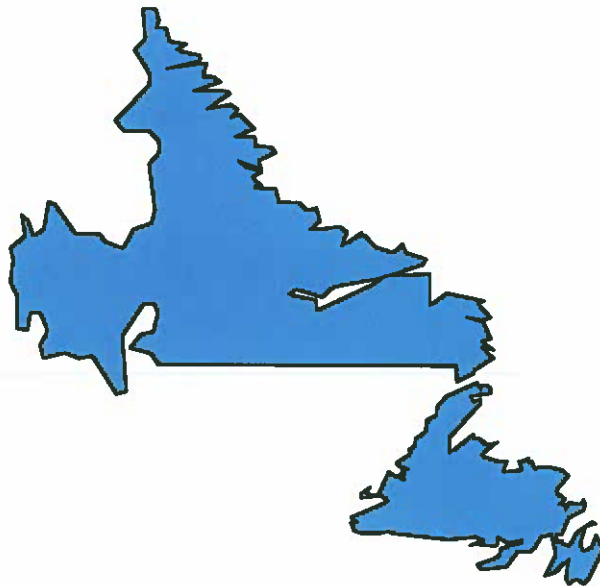


**PUBLIC WORKS AND GOVERNMENT SERVICES CANADA
REAL PROPERTY CONTRACTING
NL DIVISION**

SPECIFICATION

**Soil Remediation
Wabush Airport - Wabush, NL**

SOLICITATION #: EA003-160374/A



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SPECIFICATION
WABUSH AIRPORT
SOIL REMEDIATION
WABUSH, NL
PROJECT NUMBER R.073734.002

DATE

January, 2015

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Soil Sampling, Contaminated Soil Stockpile		
Wabush Airport, Wabush, NL		

PART 1 - GENERAL

- 1.1 REFERENCES .1 National Building Code of Canada (NBC) (2005) including all amendments up to tender closing date.
- 1.2 SCOPE OF WORK .1 Work under this contract covers the Wabush Airport Soil Remediation, Wabush, NL, in strict accordance with the specifications, plans and subject to the terms and conditions of the contract.
- 1.3 DESCRIPTION OF WORK .1 The work will consist of, but not necessarily be limited to:
.1 Complete mobilization of all labour, materials and equipment to the site, this also includes provision of temporary site facilities.
.2 Complete removal, transportation and off-site disposal of petroleum hydrocarbon contaminated soil at a NLDEC licensed soil treatment facility.
.3 Removal and disposal of all tarps/Liners and tires and grading of berm material over the fire training area site as specified.
.4 Complete demobilization of all materials, labour and equipment including final site clean-up.
.5 All work as indicated on the accompanying drawings and herein specified.
- 1.4 SITE OF WORK .1 The work site is within the boundaries of the Wabush Airport. Refer to Appendix I for site location, drawings & pictures.

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- 1.5 TERM ENGINEER .1 Unless specifically stated otherwise, the term Engineer where used in the specifications and on the drawings shall mean the Departmental Representative (DR) as defined in the General Conditions of the Contract.
- 1.6 EXAMINATION OF SITE .1 Prior to submitting a Bid for this remediation work, it is recommended that Bidders visit the site of work and make their own assessment of the condition of the structures, the facilities available in the area, the severity, exposure and general uncertainty of weather conditions, actual site and soil conditions and any other contingencies which may attend the execution of this contract.
- 1.7 REPORTS .1 The following report is enclosed as Appendix I for review by Bidders:
.1 Soil Sampling, Contaminated Soil Stockpile, Wabush Airport, Wabush, NL, Final Report January 31, 2014 by Stantec

NOTE 1: Quantities and estimates noted in the reference report are to be used only as a guide. There will be no compensation to the Bidder for any errors, omissions or discrepancies in the report. Canada accepts no responsibility for the accuracy of information provided in the report.

NOTE 2: Work will be completed as outlined in this specification and directed by the Departmental Representative, not as recommended or stated in the report.

1.8 CODES, LEGISLATIVE .1
REQUIREMENTS &
GUIDELINES

The following codes and legislative requirements shall be in effect for this project:

- .1 Environment Acts of the Province of Newfoundland and Labrador.
- .2 Guidance Document for the Management of Contaminated Sites, Version 1.0, Province of Newfoundland and Labrador.
- .3 Environmental Control (Water & Sewer) Regulations of the Province of Newfoundland and Labrador.
- .4 Waste Material Disposal Acts of the Province of Newfoundland and Labrador.
- .5 Canadian Environmental Protection Act.
- .6 Transportation of Dangerous Goods Act/Regulations.
- .7 Canadian Fisheries Act.
- .8 Canadian Council of Ministers of the Environment (CCME) National Guidelines for Decommissioning Industrial Sites.
- .9 Canada Labour Code Occupational Health and Safety Standards.
- .10 National Building Code of Canada, 2005.
- .11 National Fire Code of Canada, 2005.
- .12 Newfoundland Occupational Health and Safety Act and Regulations. Occupational Health and Safety Act RSN 1990, Chapter 0-3.
- .13 Fire Commission of Canada #301 Standard for Building Construction Operations, 1982.
- .14 Canadian Electrical Code, Part I, CSA C22.1-1994.
- .15 Public Works and Government Services Canada "Electrical Safety Requirements" document dated June 1995. (Includes Lockout Procedures).
- .16 The Storage and Handling of Gasoline and Associated Products Regulations by the Province of Newfoundland and Labrador.
- .17 CSA S350-M1980, Code of Practice for Safety in Demolition of Structures.
- .18 Canadian Construction and Canada Labour Safety.
- .19 Codes: Provincial Government, Workers' Compensation Board; and Municipal Statues and Authorities.
- .20 Provincial Construction and Labour

Codes, Workers' Compensation Board,
Municipal Statutes and Authorities.

.21 Any other Federal, Provincial,
Municipal and Local Code, Standard,
Regulation, Guideline, By-Law or Ordinance
having jurisdiction.

- .2 In any case of conflict or discrepancy, the
more stringent requirements shall apply.
- .3 Ensure the requirements of the contract
documents and all specified codes, standards
and referenced documents are met or exceeded.
- .4 These standards shall be considered an
integral part of the specifications and shall
be read in conjunction with the drawings and
specifications. The Bidder shall be fully
familiar with their contents and requirements
as related to the work and materials
specified.

1.9 TAXES, PERMITS,
LICENSES AND
CERTIFICATES

- .1 Pay all applicable Federal, Provincial and
Municipal taxes.
- .2 Obtain and pay for all permits, licenses, fees
and certificates required for the work.
- .3 All Contractors and their sub-contractors are
required to obtain and maintain local
municipal permits prior to commencement of
any work on site.
 - .1 Proof of payment must be kept on the job
site at all times.
 - .2 Furnish the permits, licenses and
certificates to the Departmental
Representative prior to start of work.
 - .3 Provide the authorities having
jurisdiction with all information as
requested.

1.10 ABBREVIATIONS

- .1 The following abbreviations of standard specifications and acronyms have been used in this specification and on the drawings:
 - .1 NBC - National Building Code of Canada
 - .2 CGSB - Canadian Government Specifications Board
 - .3 CSA - Canadian Standards Association
 - .4 ASTM - American Society for Testing and Materials
 - .5 NFC - National Fire Code of Canada
 - .6 CCME - Canadian Council of Ministers of the Environment
 - .7 DR - Departmental Representative
- .2 Where these abbreviations and standards are used in this project, the latest edition in effect on the date Bid Acceptance will be considered as applicable.

1.12 WORK
COMMENCEMENT

- .1 The Contractor is to make every effort to ensure that sufficient labour, material, plant and equipment are mobilized to site at the earliest possible date after Acceptance of Bid.

1.13 CONTRACTOR'S
USE OF SITE

- .1 Use of site by the Contractor is limited to the execution of this work.
- .2 The Contractor is advised that the construction operations, including storage of materials, for this contract must not interfere with Airport Operations.
- .3 The Contractor will be solely responsible for arranging the storage of materials on or off the site, any materials stored at the site which interfere with any of the day to day activities at or near the site will be moved promptly at the Contractor's expense upon request by the DR. All arrangements for space and access will be made by the Contractor.
- .4 Exercise care so as not to obstruct or damage public or private property in the area.

- .5 At completion of work, restore adjacent areas to the original condition. Damage to ground and property will be repaired by the Contractor. Remove all construction materials, residue, excess, etc., and leave site in a condition acceptable to the DR.

1.14 SETTING OUT
OF WORK

- .1 Supply such devices as straight edges and templates required to facilitate the DR inspection of work.
- .2 Provide equipment and devices needed to lay out and construct work.
- .3 Supply stakes and other survey markers required for laying out of work.

1.15 SITE SECURITY

- .1 The work site is on Wabush Airport Airside property and contractors are required to be escorted by airport security personnel, refer to Section 01 35 27 SPECIAL PROCEDURES: AIRPORTS IN USE, for all requirements regarding security.

1.16 EXISTING
SERVICES

- .1 Before commencing work, establish location and extent of service lines (if any) in area of work and notify the DR of findings in writing.
- .2 It is the Contractor's responsibility to ensure all systems, which may be encountered during excavation, are identified and temporarily protected, supported or electrically isolated to complete the work safely.
- .3 Submit schedule to and obtain approval from the DR for any shutdown or closure of active service or facility. Adhere to approved schedule and provide notice to affected parties.

- .4 Where unknown services are encountered, immediately advise the DR and confirm findings in writing.
- .5 Remove abandoned service lines and cap or otherwise seal lines at cut-off points as directed.
- .6 Record locations of maintained, re-routed and abandoned service lines.

1.17 PROJECT MEETINGS

- .1 The DR will arrange all Project Meetings.
- .2 All Project Meetings will take place on site of work unless otherwise directed by the DR.
- .3 The Contractor will notify the participants of meetings.
- .4 The Contractor will assume responsibility for recording minutes of meetings and will forward a copy to the DR for review within forty-eight (48) hours after the meeting. Upon approval by the DR, the Contractor will forward copies to all parties present at the meeting.
- .5 The Contractor will have a responsible member of the firm present at all Project Meetings.

1.18 DOCUMENTS REQUIRED

- .1 Contract drawings.
- .2 Specifications.
- .3 Addenda (if any).
- .4 Change Orders.
- .5 Other modifications to Contract.
- .6 Field test reports.

- .7 Copy of approved work schedule.
- .8 Written Health and Safety Program.
- .9 Job Safety and Hazardous Assessment Analysis Forms.
- .10 Material Safety Data Sheets (MSDS).
- .11 Confined Space "Entry Permits".
- .12 Permits, Licenses and Certificates from Regulatory Authorities.
- .13 Copy of Provincial Occupational Health and Safety Act and Regulations.
- .14 Copy of Canada Labour Code Part II.

1.19 SMOKING
PRECAUTION

- .1 There is a "No Smoking" policy at the work site.
- .2 Observe smoking regulations and restrictions at all times.
- .3 The Contractor must adhere to the Federal Government "No Smoking" policy while in Federal facilities and buildings.

1.20 RELICS AND
ANTIQUITIES

- .1 Protect relics, antiquities, items of historical or scientific interest such as cornerstones and contents, commemorative plaques, inscribed tablets, and similar objects found during course of work.
- .2 Give immediate written notice to the DR and await DR written instructions before proceeding with work in the area.
- .3 Relics, antiquities and items of historical or scientific interest remain Canada's property.

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- 1.21 SALVAGE VALUE .1 Canada assumes no responsibility for the quality or quantity of any material removed under this project.
- .2 Any assumptions made regarding the salvage value of any and all materials under this contract are by the Contractor only. All estimates of quality and quantity of salvaged materials are to be made by the Contractor.
- .3 No consideration for payment will be made by DR to the Contractor as a result of the Contractor receiving less than assumed salvage value of any materials.
- 1.22 SPECIAL CONSIDERATIONS .1 All information and data gathered as part of the Contractor's Bid submission and/or execution of this project shall be "strictly confidential". This information will be submitted in writing to the DR if requested.
- 1.23 CONFLICT OF INTEREST .1 The Contractor, its employees, agents and subcontractors, as part of its consideration under this contract, declares that it is not in a conflict of interest with respect to any and all work performed under this contract. Furthermore, if during the period of this contract the Contractor becomes aware of the potential for any real or perceived conflict of interest with respect to its performance of work under the contract, the Contractor is to immediately advise the DR. The Contractor will take immediate steps to rectify any conflict of interest situation to Canada.
- 1.24 CERTIFICATION OF GOOD STANDING .1 For the purposes of this clause, a Letter of Recognition is written confirmation from a Construction Safety Association or similar organization that the Bidder has successfully

completed a Certificate of Recognition or equivalent Program offered by such organizations. The content of the Program referred to herein shall address construction safety specifically.

- .2 In the event that a Confirmation of Enrollment was submitted prior to contract award, the Contractor shall complete the Certificate of Recognition or equivalent Program and provide a copy of a valid Letter of Good Standing to the Contracting Authority.
 - .1 within 45 days immediately following the Acceptance of BID, or
 - .2 by the date of issuance of the Certificate of Substantial Completion, or
 - .3 within 5 days immediately following the Bidder's successful completion of the Program, whichever occurs first.
- .3 Notwithstanding the provision described in the Terms of Payment, no payments will be made until the Contractor has delivered a copy of the Letter of Good Standing to the Contracting Authority. No interest payments will be made as a result of this action by Canada.
- .4 Remain in good standing in the Program referred to above at least until the date set for the end of the warranty period established in accordance with Clause GC3.13, Execution and Control of the Work and provide evidence, acceptable to the Contracting Authority, of good standing when requested in writing to do so.
- .5 Ensure that a similar provision forms part of all other contracts issued as a result of this contract.

PART 1 - GENERAL

1.1 DESCRIPTION

- .1 The work specified in this section comprises the provision of all plant, labour, material and equipment and the performance of all work necessary for mobilization/demobilization to and from the work site.
- .2 Mobilization shall include transportation to the site of contractor's plant, labour, material and equipment in readiness to start the work all in accordance with the approved work schedule.
- .3 Demobilization shall include final site cleaning and transportation from the site of contractor's plant, labour, material and equipment at the completion of the required work.

1.2 MEASUREMENT
FOR PAYMENT

- .1 No separate measurement for payment shall be made for items under this section. Include all costs for mobilization/ demobilization in the Lump Sum portion of the work on the Bid and Acceptance Form.

PART 2 - PRODUCTS

- 2.1 NOT USED

PART 3 - EXECUTION

- 3.1 NOT USED

PART 1 - GENERAL

1.1 REFERENCES

- .1 Uniform Traffic Control Devices for Canada, (UTCD) (distributed by Transportation Association of Canada).
- .2 Manual of Uniform Traffic Control Devices for Streets and Highways, US FHWA, Part IV, -

1.2 PROTECTION OF PUBLIC TRAFFIC

- .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.
- .2 When working on travelled way:
 - .1 Place equipment in position to present minimum of interference and hazard to traveling public.
 - .2 Keep equipment units as close together as working conditions permit and preferably on same side of travelled way.
 - .3 Do not leave equipment on travelled way overnight.
- .3 Do not close any lanes of road without approval of DR. Before re-routing traffic erect suitable signs and devices in accordance with instructions contained in Part D of UTCD.
- .4 Keep travelled way graded, free of pot holes and of sufficient width for required number of lanes of traffic.
 - .1 Provide minimum 5 m wide temporary roadway for traffic in one-way sections through Work and on detours.

- .5 As indicated, As directed by DR, provide gravelled paved detours or temporary roads to facilitate passage of traffic around restricted construction area:
 - .1 Place and compact granular base in accordance with standard road construction practices.
- .6 Provide and maintain road access and egress to property fronting along Work under Contract and in other areas as indicated, unless other means of road access exist that meet approval of DR.

1.3 INFORMATIONAL
AND WARNING DEVICES

- .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.
- .2 Supply and erect signs, delineators, barricades and miscellaneous warning devices as specified in Part D, Temporary Conditions Signs and Devices, of UTCD manual and as required by the Wabush Airport Authority.
- .3 Place signs and other devices in locations recommended in UTCD manual.
- .4 Meet with DR 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 DR.
- .5 Continually maintain traffic control devices in use by:
 - .1 Checking signs daily for legibility, damage, suitability and location. Clean, repair or replace to ensure clarity and reflectance.
 - .2 Removing or covering signs which do not apply to conditions existing from day to day.

1.4 CONTROL OF
PUBLIC TRAFFIC

- .1 Provide competent flag persons, trained in accordance with, and properly equipped as specified in, UTCD manual in following situations:
 - .1 When public traffic is required to pass working vehicles or equipment which block all or part of travelled roadway.
 - .2 When it is necessary to institute one-way traffic system through construction area or other blockage where traffic volumes are heavy, approach speeds are high and traffic signal system is not in use.
 - .3 When workmen or equipment are employed on travelled way over brow of hills, around sharp curves or at other locations where oncoming traffic would not otherwise have adequate warning.
 - .4 Where temporary protection is required while other traffic control devices are being erected or taken down.
 - .5 For emergency protection when other traffic control devices are not readily available.
 - .6 In situations where complete protection for workers, working equipment and public traffic is not provided by other traffic control devices.
 - .7 Delays to public traffic due to contractor's operators: maximum 15 min.

1.5 OPERATIONAL
REQUIREMENTS

- .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 herein and approved by DR to protect and control public traffic.

PWGSC Wabust Airport
Soil Remediation
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TRAFFIC CONTROL

SECTION 01 35 14
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1.6 MEASUREMENT FOR
PAYMENT

- .1 No separate measurement for payment shall be made for items under this section. Include all cost for Traffic Control in the Lump Sum portion of the work on the Bid and Acceptance Form.

PART 2 - PRODUCTS

2.1 NOT USED

PART 3 - EXECUTION

3.1 NOT USED

- | | | |
|-------------------------------------|----|---|
| <u>1.1 SECTION INCLUDES</u> | .1 | Fire Safety Requirements. |
| | .2 | Hot Work Permit. |
| <u>1.2 RELATED WORK</u> | .1 | Section 01 35 29 - Health and Safety Requirements. |
| <u>1.3 REFERENCES</u> | .1 | National Fire Code - latest edition.
FCC standards, may also be viewed at the
Regional Labour Canada Office located at
Baine Johnson Centre, 10 Fort William Place,
St. John's, NL, A1C 1K4; Telephone
1-800-641-4049; fax 1-709-772-5985. |
| <u>1.4 DEFINITIONS</u> | .1 | Hot Work defined as:
.1 Welding work.
.2 Cutting of materials by use of torch or
other open flame devices.
.3 Grinding with equipment which produces
sparks. |
| <u>1.5 SUBMITTALS</u> | .1 | Submit copy of Hot Work Procedures and sample
of Hot Work permit to Departmental
Representative for review, within seven (7)
calendar days after notification of
acceptance of bid. |
| <u>1.6 FIRE SAFETY REQUIREMENTS</u> | .1 | Implement and follow fire safety measures
during Work. Comply with following:
.1 National Fire Code, latest edition.
.2 Federal and Provincial Occupational
Health and Safety Acts and Regulations as
specified in Section 01 35 29 - Health and
Safety Requirements. |
| | .2 | In event of conflict between any provisions |

of above authorities the most stringent provision will apply. Should a dispute arise in determining the most stringent requirement, Departmental Representative will advise on the course of action to be followed.

1.7 HOT WORK
AUTHORIZATION

- .1 Obtain Departmental Representative's written "Authorization to Proceed" before conducting any form of Hot work on site.
- .2 To obtain authorization submit to Departmental Representative:
 - .1 Contractor's typewritten Hot Work Procedures to be followed on site as specified below.
 - .2 Description of the type and frequency of Hot Work required.
 - .3 Sample Hot Work Permit to be used.
- .3 Upon review and confirmation that effective fire safety measures will be implemented during performance of hot work, Departmental Representative will provide authorization to proceed as follows:
 - .1 Issue one written "Authorization to Proceed" covering the entire project for duration of work or;
 - .2 Separate work, or segregate certain parts of work, into individual entities. Each entity requiring a separately written "Authorization to Proceed" from Departmental Representative. Follow Departmental Representative's directives in this regard.
- .4 Requirement for individual authorization based on:
 - .1 Nature or phasing of work;
 - .2 Risk to Facility operations;
 - .3 Quantity of various trades needing to perform hot work on project or;
 - .4 Other situation deemed necessary by Departmental Representative to ensure fire safety on premises.

- .5 Do not perform any Hot Work until receipt of Departmental Representative's written "Authorization to Proceed" for that portion of work.

1.8 HOT WORK
PROCEDURES

- .1 Develop and implement safety procedures and work practices to be followed during the performance of Hot Work.
- .2 Procedures to include:
 - .1 Requirement to perform hazard assessment of site and immediate hot work area for each hot work event in accordance with Hazard Assessment and Safety Plan requirements of Section 01 35 29.
 - .2 Use of a Hot Work Permit system for each hot work event.
 - .3 The step by step process of how to prepare and issue permit.
 - .4 Permit shall be issued by Contractor's site Superintendent, or other authorized person designated by Contractor, granting permission to worker or subcontractor to proceed with hot work.
 - .5 Provision of a designated person to carry out a Fire Safety Watch for a minimum of 60 minutes immediately upon completion of the hot work.
 - .6 Compliance with fire safety codes and standards specified herein and occupational health and safety regulations specified in Section 01 35 29.
- .3 Generic procedures, if used, must be edited and supplemented with pertinent information tailored to reflect specific project conditions. Clearly label as being the Hot Work Procedures applicable to this contract.
- .4 Hot Work Procedures shall clearly establish worker instructions and allocate responsibilities of:
 - .1 Worker(s),

- .2 Authorized person issuing the Hot Work Permit,
- .3 Fire Safety Watcher,
- .4 Subcontractors and Contractor.
- .5 Brief all workers and subcontractors on Hot Work Procedures and Permit system established for project. Stringently enforce compliance.
 - .1 Failure to comply with the established procedures may result in the issuance of a Non-Compliance Notification at Departmental Representative's discretion with possible disciplinary measures imposed as specified in Section 01 35 29.

1.9 HOT WORK
PERMIT

- .1 Hot Work Permit to include, as a minimum, the following data:
 - .1 Project name and project number.
 - .2 Building name, address and specific room or area where hot work will be performed.
 - .3 Date when permit issued.
 - .4 Description of hot work type to be performed.
 - .5 Special precautions required, including type of fire extinguisher needed.
 - .6 Name and signature of person authorized to issue the permit.
 - .7 Name of worker (clearly printed) to which the permit is being issued.
 - .8 Time Duration that permit is valid (not to exceed 8 hours). Indicate start time and date, and completion time and date.
 - .9 Worker signature with date and time upon hot work termination.
 - .10 Specified time period requiring safety watch.
 - .11 Name and signature of designated Fire Safety Watcher, complete with time and date when safety watch terminated, certifying that surrounding area was under continual surveillance and inspection during the full watch time period specified in Permit and commenced immediately upon completion of Hot Work.

- .2 Permit to be typewritten form. Industry Standard forms shall only be used if all data specified above is included on form.
- .3 Each Hot Work Permit to be completed in full and signed as follows:
 - .1 Authorized person issuing Permit before hot work commences.
 - .2 Worker upon completion of Hot Work.
 - .3 Fire Safety Watcher upon termination of safety watch.
 - .4 Returned to Contractor's Site Superintendent for safe keeping.

1.10 DOCUMENTS
ON SITE

- .1 Keep Hot Work Permits and Hazard assessment documentation on site for duration of Work.
- .2 Upon request, make available to Departmental Representative or to authorized safety representative for inspection.

PART 1 - GENERAL

1.1 RELATED
SECTIONS

- .1 Section 01 11 00 - Summary of Work.
- .2 Section 02 55 14 - Contaminated Site Remediation Soils.

1.2 GENERAL
PROTECTION

- .1 Do not disrupt airport business except as permitted by DR.
- .2 Provide barricades and lights where directed. The use and types of lights shall be cleared/approved by the Airport Authority and NAV Canada.

1.3 DEFINITIONS

- .1 Runway elevation: The elevation of the runway at the highest point directly abeam the area being worked on (at 90 Deg. from the Center Line C/L). This is usually the elevation of the crown of the runway.
- .2 Runway Strip; Extends to 150 m from the C/L.
- .3 Runway Graded Area: Extends to 75 m from the C/L.
- .4 Transitional Surface: Starts at the edge of the Strip (150 m from C/L) at the runway elevation and is a 1:7 slope, i.e. an object 30 m from the edge of the Runway Strip can be 2.1 m above the runway elevation.

1.4 MOVEMENT OF
EQUIPMENT AND
PERSONNEL

- .1 Do not allow any Personnel or vehicle traffic to proceed outside the limits of the work site.
 - .1 Obey signals from airport traffic control tower instantly.

1.5 UNSERVICEABLE
AREAS

- .1 Park equipment not in use and stockpile materials so that stockpile tops are below

50 to 1 ratio from ends of useable landing strip and below 7 to 1 ratio as defined above. Mark tops with red lights as directed by DR.

1.6 WORK
RESTRICTIONS

- .1 Taxiway & runway shall remain in operation, contractor shall provide & install barricades in a location which is visible to all aircraft for day and night operations.
- .2 Barricades painted - International red and white markings and lights for night operations.
- .3 Transitional Protection - During Aircraft operations nothing shall penetrate the Transitional surface. The maximum elevation of construct equipment to be evaluated. Surface elevations should be known for calculations
- .4 Low visibility operations shall conform to the following:
 - .1 When aircraft operations are expected vehicles working within any areas associated with this project must discontinue when the Visibility drops below 2600 RVR - Unless the area can be barricaded to prevent vehicles entering the maneuvering area (Taxiways and Runway edge areas).
 - .2 No debris or materials may be left in the Runway strip outside 75 m from the C/L if it is elevated above the Runway elevation. No work may continue closer than 75 m from the runway C/L unless aircraft operations do not exist.
 - .3 Vehicles operating outside 75 m may continue work provided they remain mobile (no vehicle is to shut down or stop engines unless there is no chance of aircraft operations, all vehicles must be able to pull back if required).
 - .4 Vehicles and equipment shall not penetrate the Transitional surface during aircraft operations. If the height of a vehicle is unknown it is to be assumed that

it's 4.3 m in height.

1.7 SITE SECURITY

- .1 The work will be carried out within the limits of the Wabush Airport, Wabush, NL. .
- .2 Be aware that security regulations pertaining to control of construction personnel are in force at the site. It is the Contractor's responsibility to become familiar with and abide by such regulations.
- .3 In general, the Wabush Airport Authority will provide orientation on security and rules before work commences.
- .4 The Contractor will be responsible to:
 - .1 Co-ordinate the hiring of security personnel through the Wabush Airport Authority to control and monitor all traffic at restricted area entry and exit points and at the remediation site. The payment for the security personnel for the duration of the project will be the contractor's responsibility and all cost shall be included in the Lump Sum portion of the work on the Bid and Acceptance Form.
 - .2 Provide escort and surveillance function through use of security personnel who have security passes and airside vehicle operator's permits; and,
 - .3 The Contractor must supply and install barricades and signage necessary to block access points to the work area as directed by the DR.
- .5 The Contractor requires Temporary Airport Restricted Area Passes for all their personnel working within restricted areas. The Contractor is responsible to obtain such passes, as are required, prior to work commencing including those required by their sub-contractors. The Contractor is responsible for the passes in accordance with the airport security regulations.

- .6 The Contractor is responsible to brief their own workforce and sub-contractors with respect of the security regulations and to ensure that they abide by all rules and regulations.
- .7 The Contractor shall establish and maintain a complete registry of all workers' names, including sub-contractors, service personnel and approved visitors' names. All workers' names will be submitted to the security personnel prior to entry to site.
- .8 The Contractor must immediately report any lost, stolen or destroyed passes to the DR and the Airport Manager's Office.
- .9 The work area shall be closed to all non-authorized personnel.
- .10 The Contractor shall ensure all persons entering the construction site shall receive a verbal safety advisory identifying areas of concern within that construction site.
- .11 Where the work of this contract will result in frequent use of a locked gate, it is the Contractor's responsibility to co-ordinate a security person to control the use of such gate at all times while the gate is in use.
- .12 Where the work of the Contract is located airside, provide barriers as required by the DR and instruct all workers to stay within the boundary of the designated area.
- .13 Material and equipment delivery vehicles will be met at the security gate by security and escorted to the loading site. After loading, security will escort the delivery vehicle back to and through the security gate.
- .14 When work will be done within restricted areas after normal working hours, notify the Airport Manager's Office through the DR in advance of areas and times. As much prior

notice as possible will be given of any work to be carried out outside normal working hours, or outside the hours agreed to before the start of the contract, in order to minimize impact on airport operations.

- .15 The contractor shall abide by all rules, regulations and/or restrictions placed on them by the Airport Authority at no additional cost to the Government. Please direct all inquiries regarding these matters to the Wabush Airport Authority, refer to clause 1.8.2 below for contact number.

1.8 MEASUREMENT
FOR PAYMENT

- .1 No separate measurement for payment shall be made for items under this section. Include all cost for Special Procedures: Airports in Use in the Lump Sum portion of the work on the Bid and Acceptance Form.
- .2 All inquiries for cost associated with security personnel shall be directed to the Wabush Airport facility manager.

Jaime Leiva

Airport Manager / Directeur de l'Aéroport
Transport Canada / Wabush Airport
Transports Canada / Aéroport de Wabush
Government of Canada / Gouvernement du
Canada
709-282-5341

PART 2 - PRODUCTS

- 2.1 NOT USED

PART 3 - EXECUTION

- 3.1 NOT USED

1.1 RELATED WORK .1 Section 01 35 24 - Special Procedures on Fire Safety.

1.2 DEFINITIONS .1 COSH: Canada Occupational Health and Safety Regulations made under Part II of the Canada Labour Code.

.2 Competent Person: means a person who is:

.1 Qualified by virtue of personal knowledge, training and experience to perform assigned work in a manner that will ensure the health and safety of persons in the workplace, and;

.2 Knowledgeable about the provisions of occupational health and safety statutes and regulations that apply to the Work and;

.3 Knowledgeable about potential or actual danger to health or safety associated with the Work.

.3 Medical Aid Injury: any minor injury for which medical treatment was provided and the cost of which is covered by Workers' Compensation Board of the province in which the injury was incurred.

.4 PPE: personal protective equipment.

.5 Work Site: where used in this section shall mean areas, located at the premises where Work is undertaken, used by Contractor to perform all of the activities associated with the performance of the Work.

1.3 SUBMITTALS

- .1 Submit site-specific Health and Safety Plan prior to commencement of work.
 - .1 Submit within (5) work days of notification of Bid and Acceptance Form.
 - .2 Departmental Representative will review Health and Safety Plan and provide comments.
 - .3 Revise the Plan as appropriate and resubmit within five (5) work days after receipt of comments.
 - .4 Departmental Representative's review and comments made of the Plan shall not be construed as an endorsement, approval or implied warranty of any kind by Canada and does not reduce Contractor's overall responsibility for Occupational Health and Safety of the Work.
 - .5 Submit revisions and updates made to the Plan during the course of Work.
- .2 Submit name of designated Health & Safety Site Representative and support documentation specified in the Health and Safety Plan.
- .3 Submit compliance certificates and other permits obtained.
- .4 Submit copy of Letter in Good Standing from Provincial Workers Compensation or other department of labour organization.
 - .1 Submit update of Letter in Good Standing whenever expiration date occurs during the period of work.
- .5 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
- .6 Submit copies of incident reports.
- .7 Submit WHMIS MDS - Material Safety Data Sheets.

1.4 COMPLIANCE
REQUIREMENTS

- .1 Comply with the Occupational Health and Safety Act for the Province of Newfoundland and Labrador, and the Occupational Health and Safety Regulations made pursuant to the Act.
- .2 Comply with Canada Labour Code Part II, (entitled Occupational Health and Safety) and the Canada Occupational Health and Safety Regulations (COSH) as well as any other regulations made pursuant to the Act.
 - .1 The Canada Labour Code can be viewed at:
[www.http://laws.justice.gc.ca/en/L-2/](http://laws.justice.gc.ca/en/L-2/)
 - .2 COSH can be viewed at:
[www.http://laws.justice.gc.ca/eng/SOR-86-304/ne.html](http://laws.justice.gc.ca/eng/SOR-86-304/ne.html).
 - .3 A copy may be obtained at: Canadian Government Publishing Public Works & Government Services Canada Ottawa, Ontario, K1A 0S9 Tel: (819) 956-4800 (1-800-635-7943) Publication No. L31-85/2000 E or F).
- .3 Observe construction safety measures of:
 - .1 Part 8 of National Building Code.
 - .2 Municipal by-laws and ordinances.
- .4 In case of conflict or discrepancy between any specified requirements, the more stringent shall apply.
- .5 Maintain Workers Compensation Coverage in good standing for duration of Contract. Provide proof through submission of Letter in Good Standing
- .6 Medical Surveillance: Where prescribed by legislation or regulation, obtain and maintain worker medical surveillance documentation.

1.5 RESPONSIBILITY

- .1 Be responsible for health and safety of persons on site, safety of property and for protection of persons and environment adjacent to the site to extent that they may be affected by conduct of Work.
- .2 Comply with and enforce compliance by all workers, sub-contractors and other persons granted access to work site with safety requirements of Contract Documents, applicable Federal, Provincial, and local by-laws, regulations, and ordinances, and with site specific Health and Safety Plan.

1.6 SITE CONTROL
AND ACCESS

- .1 Control the Work and entry points to Work Site. Approve and grant access only to workers and authorized persons. Immediately stop and remove non-authorized persons.
 - .1 Departmental Representative will provide names of those persons authorized by Departmental Representative to enter onto Work Site and will ensure that such authorized persons have the required knowledge and training on Health and Safety pertinent to their reason for being at the site, however, Contractor remains responsible for the health and safety of authorized persons while at the Work Site.
- .2 Isolate Work Site from other areas of the premises by use of appropriate means.
 - .1 Erect fences, hoarding, barricades and temporary lighting as required to effectively delineate the Work Site, stop non-authorized entry, and to protect pedestrians and vehicular traffic around and adjacent to the Work and create a safe environment.
 - .2 Post signage at entry points and other strategic locations indicating restricted access and conditions for access.
 - .3 Use professionally made signs with

bilingual message in the 2 official languages or international known graphic symbols.

- .3 Provide safety orientation session to persons granted access to Work Site. Advise of hazards and safety rules to be observed while on site.
- .4 Ensure persons granted site access wear appropriate PPE. Supply PPE to inspection authorities who require access to conduct tests or perform inspections.
- .5 Secure Work Site against entry when inactive or unoccupied and to protect persons against harm. Provide security guard where adequate protection cannot be achieved by other means.

1.7 PROTECTION

- .1 Give precedence to safety and health of persons and protection of environment over cost and schedule considerations for Work.
- .2 Should unforeseen or peculiar safety related hazard or condition become evident during performance of Work, immediately take measures to rectify situation and prevent damage or harm. Advise Departmental Representative verbally and in writing.

1.8 FILING OF NOTICE

- .1 File Notice of Project with pertinent Provincial health and safety authorities prior to beginning of Work.
 - .1 Departmental Representative will assist in locating address in needed.

1.9 PERMITS

- .1 Post permits, licenses and compliance certificates, specified in section 01 10 10, at Work Site.

- .2 Where a particular permit or compliance certificate cannot be obtained, notify Departmental Representative in writing and obtain approval to proceed before carrying out applicable portion of work.

1.10 HAZARD
ASSESSMENTS

- .1 Perform site specific health and safety hazard assessment of the Work and its site.
- .2 Carryout initial assessment prior to commencement of Work with further assessments as needed during progress of work, including when new trades and subcontractors arrive on site.
- .3 Record results and address in Health and Safety Plan.
- .4 Keep documentation on site for entire duration of the Work.

1.11 PROJECT/SITE
CONDITIONS

- .1 The following are potential health, environmental and safety hazards at site for which work may involve contact with:
 - .1 Proximity of work to airport runways & taxiways.
 - .2 Wet and slippery conditions.
 - .3 Inclement weather conditions.
 - .4 Contact with contaminated soils.
 - .5 Cutting tools and other construction power tools.
 - .6 Sharp objects (construction debris).
 - .7 Loud noise (airplanes).
 - .8 Working in close proximity to heavy equipment.
- .2 Above items shall not be construed as being complete and inclusive of potential health, and safety hazards encountered during work.
- .3 Include above items into hazard assessment

process.

1.12 MEETINGS

- .1 Contractor to hold pre-construction health and safety meeting prior to commencement of Work. Ensure attendance of:
 - .1 Superintendent of Work.
 - .2 Contractor's designated Health & Safety Site Representative.
 - .3 Subcontractor's Health and Safety Site Representative.
 - .4 Health and Safety Site Coordinator.
- .2 Conduct regularly scheduled tool box and safety meetings during the Work in conformance with Occupational Health and Safety regulations.
- .3 Keep documents on site.

1.13 HEALTH AND
SAFETY PLAN

- .1 Prior to commencement of Work, develop written Health and Safety Plan specific to the work. Implement, maintain, and enforce Plan for entire duration of Work and until final demobilization from site.
- .2 Health and Safety Plan shall include the following components:
 - .1 List of health risks and safety hazards identified by hazard assessment.
 - .2 Control measures used to mitigate risks and hazards identified.
 - .3 On-site Contingency and Emergency Response Plan as specified below.
 - .4 On-site Communication Plan as specified below.
 - .5 Name of Contractor's designated Health & Safety Site Representative and information showing proof of his/her competence and reporting relationship in Contractor's company.
 - .6 Names, competence and reporting relationship of other supervisory

personnel used in the Work for occupational health and safety purposes.

- .3 On-site Contingency and Emergency Response Plan shall include:
 - .1 Operational procedures, evacuation measures and communication process to be implemented in the event of an emergency.
 - .2 Evacuation Plan: site and floor plan layouts showing escape routes, marshaling areas. Details on alarm notification methods, fire drills, location of firefighting equipment and other related data.
 - .3 Name, duties and responsibilities of persons designated as Emergency Warden(s) and deputies.
 - .4 Emergency Contacts: name and telephone number of officials from:
 - .1 General Contractor and subcontractors.
 - .2 Pertinent Federal and Provincial Departments and Authorities having jurisdiction.
 - .3 Local emergency resource organizations.
 - .5 Harmonize Plan with Facility's Emergency Response and Evacuation Plan. Departmental Representative will provide pertinent data including name of PWGSC and Facility Management contact.
- .4 On-site Communication Plan:
 - .1 Procedures for sharing of work related safety information to workers and subcontractors, including emergency and evacuation measures.
 - .2 List of critical work activities to be communicated with Facility Manager which have a risk of endangering health & safety of Facility users.

- .5 Address all activities of the Work including those of subcontractors.
- .6 Review Health and Safety Plan regularly during the Work. Update as conditions warrant addressing emerging risks and hazards, such as whenever new trade or subcontractor arrive at Work Site.
- .7 Departmental Representative will respond in writing, where deficiencies or concerns are noted and may request re-submission of the Plan with correction of deficiencies or concerns.
- .8 Post copy of the Plan, and updates, prominently on Work Site.

1.14 SAFETY
SUPERVISION

- .1 Employ Health & Safety Site Representative responsible for daily supervision of Health and Safety of the Work.
- .2 Health & Safety Site Representative may be the Superintendent of the Work or other person designated by Contractor and shall be assigned the responsibility and authority to:
 - .1 Implement, monitor and enforce daily compliance with health and safety requirements of the Work
 - .2 Monitor and enforce Contractor's site-specific Health and Safety Plan.
 - .3 Conduct site safety orientation session to persons granted access to Work Site.
 - .4 Ensure that persons allowed site access are knowledgeable and trained in health and safety pertinent to their activities at the site or are escorted by a competent person while on the Work Site.
 - .5 Stop the Work as deemed necessary for reasons of health and safety.

- .3 Health & Safety Site Representative must:
 - .1 Be qualified and competent person in occupational health and safety.
 - .2 Have site-related working experience specific to activities of the Work.
 - .3 Be on Work Site at all times during execution of the Work.
 - .4 All supervisory personnel assigned to the Work shall also be competent persons.
 - .5 Inspections:
 - .1 Conduct regularly scheduled safety inspections of the Work on a minimum daily basis. Record deficiencies and remedial action taken.
 - .2 Conduct Formal Inspections on a minimum monthly basis. Use standardized safety inspection forms. Distribute to subcontractors.
 - .3 Follow-up and ensure corrective measures are taken.
 - .6 Keep inspection reports and supervision related documentation on site.
 - .7 Cooperate with Facility's Occupational Health & Safety representative.

1.15 TRAINING

- .1 Use only skilled workers on Work Site who are effectively trained in occupational health and safety procedures and practices pertinent to their assigned task.
- .2 Maintain employee records and evidence of training received. Make data available to Departmental Representative upon request.
- .3 When unforeseen or peculiar safety-related hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province having jurisdiction and advise Departmental Representative verbally and

in writing.

- .4 All workers dealing with hazardous materials are required to provide evidence of training, in accordance with Provincial regulations.

1.16 MINIMUM
SITE SAFETY RULES

- .1 Notwithstanding requirement to abide by federal and provincial health and safety regulations; ensure the following minimum safety rules are obeyed by persons granted access to Work Site:
 - .1 Wear appropriate PPE pertinent to the Work or assigned task; minimum being hard hat, safety footwear, safety glasses safety vest and hearing protection.
 - .2 Immediately report unsafe condition at site, near-miss accident, injury and damage.
 - .3 Maintain site and storage areas in a tidy condition free of hazards causing injury.
 - .4 Obey warning signs and safety tags.
- .2 Brief persons of disciplinary protocols to be taken for non compliance. Post rules on site.

1.17 CORRECTION OF
NON-COMPLIANCE

- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Departmental Representative.
- .2 Provide Departmental Representative with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 Departmental Representative will stop Work if non-compliance of health and safety regulations is not corrected in a timely manner.

1.18 INCIDENT
REPORTING

- .1 Investigate and report the following incidents to Departmental Representative:
 - .1 Incidents requiring notification to Provincial Department of Occupational Safety and Health, Workers Compensation Board or to other regulatory Agency.
 - .2 Medical aid injuries.
 - .3 Property damage in excess of \$10,000.00.
- .2 Submit report in writing.

1.19 HAZARDOUS
PRODUCTS

- .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS).
- .2 Keep MSDS data sheets for all products delivered to site.
 - .1 Post on site.
 - .2 Submit copy to Departmental Representative.

1.20 Blasting

- .1 Blasting or other use of explosives is not permitted on site (without prior receipt of written permission and instructions from Departmental Representative).

1.21 Powder Actuated
Devices

- .1 Use powder actuated fastening devices only after receipt of written permission from Departmental Representatives.

1.22 Confined Spaces

- .1 Abide by occupational health and safety regulations regarding work in confined spaces.

1.23 SITE RECORDS

- .1 Maintain on Work Site copy of safety related documentation and reports stipulated to be produced in compliance with Acts and Regulations of authorities having jurisdiction and of those documents specified herein.
- .2 Upon request, make available to Departmental Representative or authorized Safety Officer for inspection.

1.24 POSTING OF
DOCUMENTS

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on Work Site in accordance with Acts and Regulations of Province having jurisdiction.
- .2 Post other documents as specified herein, including:
 - .1 Site specific Health and Safety Plan.
 - .2 WHMIS data sheets.

PART 1 - GENERAL

- 1.1 RELATED SECTIONS .1 Section 01 11 00 - Summary of Work.
- .2 Section 01 35 29 - Health and Safety Requirements.
- .3 Section 01 52 00 - Construction Facilities.
- .4 Section 02 55 14 - Contaminated Site Remediation Soils.
- 1.2 REFERENCES .1 Transportation and Dangerous Goods Act.
- .2 Canadian Council of Ministers of the Environment (CCME), Contaminated Sites, Soils & Groundwater.
- 1.3 DESCRIPTION OF WORK .1 This section outlines the requirements for environmental protection associated with the work.
- 1.4 ENVIRONMENTAL PROTECTION PLAN .1 The contractor is required to develop and submit an Environmental Protection Plan (EPP) that demonstrates the contractor's commitment to avoidance of adverse environmental impacts through implementation of best practices in pollution prevention and the promotion of sound environmental practices for the project.
- 1.5 NOISE CONTROL .1 Establish and maintain site procedures such that noise levels from the work site are minimized.

- .2 Control noise levels in accordance with local by-laws.
- .3 Use vehicles and equipment equipped with efficient muffling devices.
- .4 Provide and use devices that will minimize noise levels at the work site.

1.6 DUST CONTROL

- .1 Prevent dust nuisances resulting from operations at the work site.
- .2 Use water, brine or calcium chloride to control dust.
- .3 Minimize use of calcium and brine, particularly in close proximity to water courses or agricultural lands.
- .4 Transport dusty materials in covered haulage vehicles.
- .5 Public roadways and Taxiways shall be kept clean and free of soil material.

1.7 WATER CONTROLS

- .1 Given the site location on Airport Property ensure that measures are in place during removal to restrict the spreading of contaminants.
- .2 Protect contaminated soil stockpile against rain water and damage due to surface run-off.
- .3 All free product if encountered in the tarped stockpile shall be collected by either vacuum trucks or sorbent materials suitable for oil based products and disposed of at a NLDEC licensed treatment facility.
- .4 The surrounding environment shall be protected at all times from the release of

free product and sedimentation from the work area.

- .5 Dispose of water so as not to be injurious to public health or safety, to property or to any part of work completed or under construction.
- .6 It is emphasized that control of water and prevention of siltation is the responsibility of the Contractor. All work is to be carried out in accordance with the NLDEC.
- .7 If water is to be released into a public sewer or sewer leading to a public sewer, sewage or effluent pipelines, the water quality criteria specified within the Newfoundland and Labrador Environmental Control Water and Sewage Regulations, 2003 shall be met and analytical data shall be submitted to the DR prior to release.
- .8 The control of run-off water containing suspended materials or other harmful substances must be in accordance with applicable provincial and/or federal criteria.

1.8 EROSION AND
SEDIMENT CONTROL

- .1 Install erosion and sediment control measures prior to any land disturbance including site preparation, site clearing, grubbing, scarification and general construction activities.
- .2 Provide and maintain temporary measures which may include, but are not limited to, silt fences, straw bale check dams, ditches, berms, sedimentation basins, dikes, erosion control structures and any other construction required to prevent erosion and migration of silt, mud, sediment, and other debris off site or to other areas of site where damage might result, or that might otherwise be required by Laws and Regulations.

.1 Silt Fence: an assembled ready to install unit consisting of geotextile attached to drivable posts. Geotextile shall be 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.

.2 Check erosion and sediment control measures weekly and after each rainfall; during prolonged rainfall, check daily. Make all necessary repairs if any damage is discovered.

.3 Unless indicated or directed by DR, 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 DR. Materials once removed become property of the Contractor.

1.9 ROADWAYS

.1 Maintenance, and Use:

.1 Prevent contamination of access roads. Immediately scrape up debris or materials on access roads which is suspected to be contaminated as determined by DR; transport and dispose of in appropriate off-site disposal facility. Clean access roads at least once per shift.

.2 DR 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.

1.10 POLLUTION CONTROL

.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.

- .2 Refueling and maintenance activities should be undertaken on level terrain, at least 30 m from any surface water, on a prepared impermeable surface with a collection system to ensure oil, gasoline and hydraulic fluids do not enter surface waters. Waste oil should be disposed of in an approved manner.
- .3 Drums of petroleum products or chemicals should be tightly sealed and stored to prevent corrosion and rust. Drums shall be stored on an impermeable barrier in a dry, watertight building or shed with an impermeable floor.
- .4 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 on site.
- .5 Promptly report spills and releases potentially causing damage to environment to:
 - .1 Authorities having jurisdiction or interest in spill or release including conservation authority, water supply authorities, drainage authority, road authority, and fire department.
 - .2 Environmental Emergencies 24-hour Report Line (1-709-772-2083 / 1-800-563-9089.)
 - .3 Owner of pollutant, if known.
 - .4 Person having control over pollutant, if known.
 - .5 Departmental Representative.
- .6 Contact manufacturer of pollutant if known and ascertain hazards involved, precautions required, and measures used in cleanup or mitigating action.
- .7 Take immediate action using available resources to contain and mitigate effects on

environment and persons from spill or release.

- .8 Provide spill response materials including, containers, open-ended barrels, absorbent, shovels, and personal protective equipment. Response equipment should be stored in an accessible location on-site. Make spill response materials available at all times in which hazardous materials or wastes are being handled or transported. Spill response materials should be compatible with types of material being handled. Personnel working on the project should be knowledgeable about response procedures. Develop a contingency plan specific to the proposed undertaking to enable a quick and effective response to a spill event.

1.11 ASSURANCE

- .1 Perform work in accordance with the following regulatory requirements:
 - .1 Laws, guidelines and policies of government authorities pertaining to: environment; noise; waste water; air quality, health and safety; and transportation.
 - .2 WHMIS.
 - .3 Canadian Environmental Assessment Act.
 - .4 Canadian Environmental Protection Act (New Substance Notification Regulations).
 - .5 Transportation of Dangerous Goods Act.
 - .6 NL Guidelines for the Management of Contaminated Sites.
 - .7 NL Environmental Control Water and Sewage Regulations.

1.12 MEASUREMENT FOR PAYMENT

- .1 No separate Measurement for Payment shall be made for items in this section. Include all costs for Environmental Protection in the Lump Sum portion of the work on the Bid and Acceptance Form.

PART 2 - PRODUCTS

2.1 EQUIPMENT

- .1 Trucks.
 - .1 Cleaned meticulously between loads of contaminated soil and clean fill.
 - .2 Cleaned meticulously at end of Work.
 - .3 Cover truck bodies with tarpaulins during transportation.
 - .4 Use watertight truck bodies for transporting contaminated soil.
 - .5 Vehicle/truck box tailgates shall be double secured to prevent accidental spillage /dumping.

PART 3 - EXECUTION

3.1 COORDINATION
OF WORK

- .1 The Contractor must coordinate the work with the requirements of the DR.

3.2 EXCAVATION,
DISPOSAL, AND
RELOCATION OF SOILS

- .1 Dispose soils in accordance with Section 02 55 14 - Contaminated Site Remediation Soils.
- .2 Dispose of petroleum hydrocarbon contaminated soils at a NLDEC licensed soil treatment facility.
- .3 Contaminated soils that are saturated with water and/or free product shall be stockpiled within elevated areas of the stockpile to allow the water and/or free product to drain back into the berm prior to removal from site for treatment. Note: The contractor is not allowed to transport saturated soils off site for treatment.
- .4 All trucks used in the transportation of hydrocarbon impacted material to have tail gates with seals in good working order so as to prevent leakage of sludge material from

truck.

- .5 Contractor must ensure that truck box is water tight and no leakage occurs prior to or during transportation of material. Any vehicles failing to meet these requirements will be rejected.
- .6 In the event of a spill during transportation, the Contractor shall be responsible for the immediate clean-up and must notify the DR and appropriate authorities immediately.
- .7 All trucks shall be cleaned at the soil disposal facility if not returning for reloading.

3.3 SOIL MANAGEMENT

- .1 Manage soil in accordance with Section 02 55 14 - Contaminated Site Remediation Soils.

3.4 REMOVAL AND DISPOSAL

- .1 Remove surplus materials and temporary facilities from site.
- .2 Do not burn or bury rubbish and waste materials on site.
- .3 Do not dispose of volatile or hazardous wastes such as mineral spirits, oil, or paint thinner on site or in storm or sanitary drains.
- .4 Do not discharge wastes into streams or waterways. Dispose of waste/excess materials at appropriate off-site facilities identified by Contractor and approved by DR.
- .5 Minimize generation of hazardous waste to maximum extent practicable. Take necessary precautions to avoid mixing clean and contaminated wastes.

3.5 EQUIPMENT

- .1 Do not clean equipment in streams or lakes.

- .2 Clean construction equipment prior to driving on roadways or removal from site.
- .3 Do not clean equipment in locations where debris can gain access to watercourses.

3.6 FINAL
DECONTAMINATION

- .1 Perform final decontamination of construction facilities, equipment, and materials which may have come in contact with potentially contaminated materials prior to removal from site.
- .2 Perform decontamination as specified to satisfaction of DR.

PART 1 - GENERAL

- | | |
|---|--|
| <u>1.1 REFERENCES</u> | .1 National Building Code of Canada, 2005. |
| <u>1.2 INSTALLATION
AND REMOVAL</u> | .1 Provide construction facilities in order to execute work expeditiously.

.2 Prepare site plan indicating location and dimensions of area to be fenced and used by contractor, number of trailers to be used, avenues of ingress/egress to fenced area and details of fence installation.

.3 Identify areas which have to be surfaced with Maintenance Grade 3 (MG3) gravel to prevent tracking of mud.

.4 Indicate use of supplemental or other staging area.

.5 Remove from site all such work after use. |
| <u>1.3 SITE
STORAGE/LOADING</u> | .1 Comply with the requirements of Section 01 35 27, Special Procedures: Airports in Use, concerning height restrictions for storage.

.2 Do not load or permit to load any part of work with a weight or force that will endanger the work. |
| <u>1.4 CONSTRUCTION
PARKING</u> | .1 Parking will be permitted on site provided it does not disrupt performance of Work.

.2 Provide and maintain adequate access to project site as well as adjacent roadways.

.3 If authorized to use taxiway and paved apron |

areas for access to project site, keep areas clean and free of gravel, mud and debris for duration of Contract and make good damage resulting from Contractors' use of taxiway or other apron areas.

- | | | |
|--|----|--|
| <u>1.5 SECURITY</u> | .1 | Comply with the requirements of Section 01 35 27, Special Procedures: Airports in Use. |
|
 | | |
| <u>1.6 SITE FACILITIES</u> | .1 | The contractor shall provide all temporary facilities necessary for the performance of all work and direct personnel requirements. This shall include, but not limited to the following: <ul style="list-style-type: none">.1 Sanitary facilities..2 Electricity/lighting..3 Eye wash stations..4 First aid stations. |
|
 | | |
| <u>1.7 SITE ENCLOSURES</u> | .1 | The Contractor will secure the area during the work shift as required to maintain site safety. The Contractor will ensure the entire area is totally secured at the end of each work shift. |
|
 | | |
| <u>1.8 EQUIPMENT,
TOOL AND MATERIALS
STORAGE</u> | .1 | Provide and maintain, in a clean and orderly condition, lockable weatherproof sheds for storage of tools, equipment and materials. |
| | .2 | Locate materials not required to be stored in weatherproof sheds on site in a manner to cause least interference with work activities. |
|
 | | |
| <u>1.9 SANITARY
FACILITIES</u> | .1 | Provide sanitary facilities for work force in accordance with governing regulations and ordinances. |
| | .2 | Post notices and take such precautions as required by local health authorities. Keep area and premises in sanitary condition. |

1.10 CONSTRUCTION
SIGNAGE

- .1 Only Project Identification signboard, notices of safety or notice instructions are permitted on site.
- .2 Signs and notices for safety and instruction shall be in both official languages, Graphic symbols shall conform to CAN3-Z321.
- .3 Maintain approved signs and notices in good condition for duration of project, and dispose of off site on completion of project or earlier if directed by DR.

1.11 REMOVAL OF
TEMPORARY FACILITIES

- .1 Remove temporary facilities from site when directed by DR.

1.12 WEIGH SCALES

- .1 Description:
 - .1 Weigh scales for weighing of contaminated soils.
 - .2 Contractor can either erect temporary weigh scales or use certified treatment facilities weigh scales, in either case weigh scales must conform to all requirements of this section.
 - .3 Contractor to submit a copy of the weigh scales certification(s) to DR at least seven (7) days prior to their use.
- .2 Regulatory Requirements:
 - .1 Weigh scales shall be certified meeting requirements of Statutes of Canada, Chapter 36, Weights and Measures Act 1970-71-72 and subsequent amendments within the following time frames;
 - 1. Temporary scales - immediately after installation.
 - 2. Facility scales - Four (4) months.

1.13 MEASUREMENT
FOR PAYMENT

- .1 No separate measurement for payment shall be made for items under this section. Include all costs for Temporary Facilities in the Lump Sum portion of the work on the Bid and Acceptance Form.

PART 2 - PRODUCTS

2.1 WEIGH SCALE
EQUIPMENT

- .1 Weigh scales: electronic truck scales of sufficient capacity and length to weigh loaded trucks in single operation.

NOTE: Scales that cannot weigh trucks in single operation are not acceptable.

- .2 Scale house for temporary scales: to enclose mass indicator and provide workspace for scale person and DR's use.
- .3 Weatherproof and have minimum 750 lux of illumination, one (1) sliding window facing scale platform and one (1) other window for cross ventilation, shelf desk at least 0.6 x 1.8 m and heat to maintain inside temperature at 20 degrees C.
- .4 Scale house shall be anchored so as to resist a 160 km/h wind force.

PART 3 - EXECUTION

3.1 WEIGH SCALE
INSTALLATION

- .1 Provide, install and maintain temporary scales, scale house and ramps, convenient to project site(s) at location approved by DR.
- .2 Provide blocking at all joints.

3.2 WEIGH SCALE
OPERATION

- .1 Provide sufficient number of weigh tickets, in triplicate, with consecutive serial numbers. Obtain DR's approval of design. Note: each ticket must clearly state the date, truck number, tare weight, gross weight and identify the material.
- .2 The contractor shall provide to the DR each morning the original/top copy of the previous day weigh tickets for all materials/pay items.
- .3 The DR shall have the right to inspect weigh scales for conformance with the requirements of this section. Scales not meeting requirements of this section will not be acceptable, it shall be the contractor's responsibility at no additional cost to the DR to provide temporary weigh scales that meet these requirements or make repairs to off-site scales until they are acceptable to the DR.

3.3 WEIGH SCALE
MAINTENANCE

- .1 Maintain scale platform and scale mechanism clean and free from gravel, asphalt, snow, ice, and debris.
- .2 Maintain approach and exit ramps free from sags and ruts.
- .3 Have scales re-certified if requested by DR.

3.4 WEIGH SCALE
REMOVAL

- .1 Remove temporary scales and scale house when no longer required by DR.
- .2 Level approach and exit ramps and regrade to approval of DR.

PART 1 - GENERAL

1.1 GENERAL

- .1 Conduct cleaning and disposal operations to comply with local ordinances and anti-pollution laws.
- .2 Store volatile wastes in covered metal containers and remove from premises daily.
- .3 Prevent accumulation of waste which create hazardous conditions.
- .4 Provide adequate ventilation during use of volatile or noxious substances.

1.2 CLEANING
DURING
CONSTRUCTION

- .1 Maintain project grounds and public properties free from accumulation of waste materials and garbage.
- .2 Provide onsite garbage containers for collection of waste materials and garbage.
- .3 Remove waste materials and garbage from site each day.

1.3 FINAL CLEANING

- .1 In preparation for substantial completion, conduct a site wide inspection and carry out cleaning as required or identified by DR.

1.4 MEASUREMENT
FOR PAYMENT

- .1 No separate measurement for payment shall be made for items under this section. Include all cost for Cleaning in the Lump Sum portion for the work on the Bid and Acceptance Form.

PART 1 - GENERAL

1.1 RELATED
SECTIONS

- .1 Section 01 11 00 - Summary of Work.
- .2 Section 01 35 43 - Environmental Protection.
- .3 Section 01 35 29 - Health and Safety Requirements.
- .4 Section 01 52 00 - Construction Facilities.

1.2 DESCRIPTION

- .1 This section specifies requirements for excavating, transportation of contaminated material (i.e. petroleum hydrocarbon contaminated soil), demolition of storage berm and grading of site as directed by the DR.
- .2 The work will consist of, but not necessarily be limited to, the following:
 - .1 Excavation, transportation and disposal of petroleum hydrocarbon contaminated soil to a NLDEC certified soil treatment facility.
 - .2 Removal & disposal of all tarps, Liners and tires to certified disposal/recycling facility.
 - .4 Grading/leveling of berm material over site.
- .3 All contaminated soils shall be removed from Wabush Airport property for treatment within five (5) weeks after award of contract.

NOTE: Contractors are advised that they are to comply with the restrictions governing work on Wabush Airport property, refer to Section 01 35 27, Special Procedures: Airports in Use.

NOTE: Work will be completed as outlined in this specification and directed by the DR.

1.3 WORK INCLUDED

- .1 Excavation of petroleum hydrocarbon contaminated soils, transportation and disposal at a NLDEC certified soil treatment facility.
- .2 Removal and off-site disposal of all tarps, Liners and tires associated with the contaminated soil stockpile.
- .3 Grading/spreading of berm material over the general site area as specified.

1.4 DEFINITIONS

- .1 Common excavation: excavation of contaminated material contained within the existing stockpile above the Liner.
- .2 Tarps: plastic fiberglass reinforced tarps currently in place over the contaminated soil stockpile being used as weather protection.
- .3 Tires: truck or larger tires of various sizes being used to hold tarps in place.
- .4 Liner: Enviro Liner 20 (0.5 mm) approximately 20m x 20m.

1.5 SUBMITTALS

- .1 Upon acceptance of bid, the successful Contractor shall provide the following within 14 calendar days of receiving the Acceptance of Bid notification:
 - .1 Copy of the license from the NLDEC treatment/disposal facility and their environmental liability impairment insurance in the amount of at least one million dollars (\$1,000,000.).
 - .2 Weigh scale certification of the soil treatment facilities weigh scales certified as meeting the requirements of Statutes of Canada, Chapter 36, Weights and Measure Act

1970-71-72 and subsequent amendments.

.3 Copies of Certificates of Approval for transporting waste.

- .2 The contractor shall submit the location and facility being used to dispose of the tarps, Liner & tires least 21 calendar days prior to disposal.

1.6 PROTECTION OF
EXISTING UTILITIES
& STRUCTURES

- .1 The Contractor shall maintain and protect from damage water, sewer, storm sewer, steam, electric, telephone and other utilities and structures. The Contractor shall repair all damaged to systems at their own expense.

1.7 REGULATORY
AGENCIES

- .1 Comply with the more stringent of federal, provincial and local requirements.
- .2 The contractor shall comply with any and all requirements of authorities having jurisdiction regarding the removal, management and transportation of material identified under the contract.

PART 2 - PRODUCTS

- .1 Not used.

PART 3 - EXECUTION

3.1 SITE
PREPARATION

- .1 Remove obstructions, tarps & tires from stockpile for disposal.
NOTE: Tarps should remain in place as long as possible to protect the stockpile from becoming saturated with rain water. Ensure tarps are stored/secured in a manner during work to prevent them from being blown around and becoming a hazard to airport traffic.
- .2 Notify/contact utility company and Airport Authorities to obtain clearances prior to

beginning work.

3.4 CONTAMINATED SOIL
REMOVAL

- .1 Advise DR in writing at least 5 days in advance of beginning work on site.
- .2 Should contaminated soils be saturated with water and/or free flowing hydrocarbon product within the berm, soils shall be stockpiled within the berm in a manor to allow the water and free product to drain back into the low lying areas of the berm prior to removal from the site for treatment.
- .3 Contractor shall take care not to tear or perforate geomembrane (Liner) during removal of contaminated soils.
- .4 All trucks used for the transportation of contaminated soils are to have their tailgates and seals in good working order so as to prevent leakage of sludge or liquid material from truck.
- .5 Contractor must ensure that truck boxes are water tight and no leakage occurs during transportation of material. Any trucks failing to meet these requirements will be rejected.
- .6 In the event of a spill during transportation the contractor shall be responsible for the immediate cleanup and notification to the appropriate authorities and DR.
- .7 All trucks shall be cleaned at the soil disposal facility if not returning for reloading.
- .8 Contractor is responsible to clean their own equipment.
- .9 Enviro Liner shall be cleaned of all contaminated soils and petroleum residue prior to disposal/recycling, all cost

associated with this shall be included in the lump sum portion on the Bid & Acceptance form.

3.7 DISPOSAL OF
MATERIAL

- .1 All material for disposal will be removed from site. It is the sole responsibility of the contractor to dispose of all material to approved facilities.
- .2 All materials being transported for treatment must be contained using liquid tight vehicles.

3.8 SITE GRADING

- .1 All material used for the construction of the berm shall be uniformly graded/spread over the immediate area.