

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Regional Manager/Real Property
Contracting/PWGSC
Ontario Region, Tendering Office
12th Floor, 4900 Yonge Street
Toronto, Ontario
M2N 6A6
Ontario

SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires
THIS DOCUMENT CONTAINS A SECURITY
REQUIREMENT

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

Issuing Office - Bureau de distribution
Regional Manager/Real Property Contracting/PWGSC
Ontario Region, Tendering Office
12th Floor, 4900 Yonge Street
Toronto, Ontario
M2N 6A6
Ontario

Title - Sujet Port Granby - Long Term Waste Mgt.	
Solicitation No. - N° de l'invitation EQ986-133623/A	Amendment No. - N° modif. 023
Client Reference No. - N° de référence du client R.023276.217	Date 2015-01-30
GETS Reference No. - N° de référence de SEAG PW-\$PWL-035-1957	
File No. - N° de dossier PWL-4-37020 (035)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-03-10	
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: Woodhall, Lauren	Buyer Id - Id de l'acheteur pwl035
Telephone No. - N° de téléphone (416) 512-5873 ()	FAX No. - N° de FAX (416) 512-5862
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: PWGSC Port Hope Area Initiative - PHAI 115 Toronto Road Port Hope, ON L1A 3S4	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	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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Solicitation Amendment No. 23 is raised to:

- 1) respond to questions related to this Request for Proposal.
- 2) amend the Request for Proposal.

SECTION A - QUESTIONS AND ANSWERS

Q306. Appendix 9 – Certificate of Insurance (Environmental Impairment Liability Insurance Requirement)

Appendix 9 requires the Contractor to maintain a limit of \$25M for Environmental Impairment Liability insurance. It is our understanding that, as written, the policy does not provide coverage for existing pollution conditions or for costs that exceed the cleanup price. As described above under Section SC14, it is our position that Contractor obligations to indemnify the Government for pollution damage should be limited to the release of any substance, waste, or material emanating from equipment brought on site by the Contractor. Please clarify if the intent of the Environmental Impairment Liability policy is to provide coverage limited to damages associated with pollution emanating from the Contractor's operations.

A306. Please refer to Appendix 9 - Certificate of Insurance forming part of this Amendment. The requirements for Environmental Impairment Liability Insurance have been modified accordingly.

Q307. Laboratory

The RFP requires that the bidder identify a primary and secondary laboratory for the project. Section 3.3.3 of the Environmental Protection Plan states the following "The Contractor is required to engage any required specialized environmental agencies for inspecting and/or testing portions of the work conformance with the EPP as necessary and as specified in the Tender Documents and this EPP. Cost of such services will be borne by the Contractor and the Contractor shall not employ inspection agencies, consultants or laboratories utilized by the Proponent."

Can you please confirm that the contractor is restricted from utilizing analytical laboratories that are used by the proponent and if so, identify what those laboratories are?

A307. The Contracting Authority has not retained any laboratories with respect to the work under this contract. The contractors are, therefore, not restricted from using any laboratory which complies with the various performance requirements and capabilities stipulated in the tender documents.

Q308. With regards to the insurance requirements set out at Appendix 9, we request that the requirements for the following coverages (to be referred to in this communication as the "Subject Coverages") be removed from the tender documents:

- (i) Fixed Site Coverage
- (ii) Storage Tank Third Party Liability

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(iii) Contractors Professional Liability

Consequently, the insurance coverage requirement would be limited to Contractors Pollution Liability.

Justification

The reason for this request is that, based on our review of the tender documents, the coverage that would be provided by the Subject Coverages does not apply to the Contractor's scope of work or liabilities. Specifically, in respect of each of the Subject Coverages, we note the following:

1. Contractors Pollution Liability insurance indemnifies the Contractor for losses from third-party claims (including claims by Owner against Contractor) for bodily injury, property damage, defense, and cleanup costs as a result of pollution conditions arising from operations performed by or on behalf of the Contractor, including the exacerbation of known pollution conditions.

2. Fixed Site Coverage insurance indemnifies the Owner for losses from claims arising from pollution conditions on, within or under the locations specifically listed in the policy, or emanating from those locations. This includes claims for cleanup, as well as claims for bodily injury and property damage, illicit abandonment of a pollutant by a party unrelated to an insured, emergency response costs, and crisis management costs. Under the tender documents, the Contractor is not assuming these risks, unless a claim arises from an operation of the Contractor, in which case the Contractors Pollution Liability insurance in (1) above would apply.

3. Storage Tank Third Party Liability coverage is an addition to the Fixed Site Coverage, in order to remove an exclusion in that policy. Similar as in (2) above, under the tender documents, the Contractor is not assuming these risks, unless a claim arises from an operation of the Contractor, in which case the Contractors Pollution Liability insurance in (1) above would apply.

4. The Contractors Professional Liability portion of the Environmental Impairment Liability is intended to cover the liabilities of the Contractor where the Contractor is providing professional services; this insurance would cover, for example, failure to detect contamination during a Phase I or Phase II audit, or the negligent design of a remedial system. Our review of the tender document documents indicates that these professional services are not in the scope of work of the Contractor.

A308. Please refer to Appendix 9 - Certificate of Insurance forming part of this Amendment. These insurance requirements have been removed.

Q309. The RFP does not detail Liquidated Damages or penalties relating to project schedule execution. Are there in fact LDs for this project?

A309. Please refer to GC5.10 Assessments and Damages for Late Completion.

Q310. SC28 Contract Security states:

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o Within ten (10) days of the signing of the Contract by the Owner, the Contractor shall deliver to the Owner an irrevocable standby letter of credit in an amount that is not less than the following:

- a. during the period from the commencement of the Work up to and including the completion of items V through X (inclusive) referred to in drawing number WT-G-05 (dated July 15, 2013) under the heading Stage 2: Contract C, twenty percent (20%) of the Contract Amount (excluding applicable tax(es)); and
- b. during the period from completion of items V through X (inclusive) referred to in drawing number WT-G-05 (dated July 15, 2013) under the heading Stage 2: Contract C, until the end of the warranty period referred to in GC 3.13, ten percent (10 %) of the Contract Amount (excluding applicable tax(es)); or such lesser amount agreed to by the Owner and the Contractor.””

PWGSC Bid Bond form states:

o [THE CONDITIONS OF THIS OBLIGATION are such that if] the Principal, should his tender (a) the Principal, should his tender be accepted within the period be specified by the Crown, or, if no period be specified, within sixty (60) days after closing date of the tender, does execute within a period specified by the Crown, or, if no period be specified therein, within fourteen (14) days after the prescribed forms are presented to him for signature, execute such further contractual documents, if any, as may be required by the terms of the tender as accepted, and does furnish a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the Contract price and satisfactory to the Crown, or other security acceptable to the Crown”

Question: Tervita’s Surety has expressed concerns about issuing a Bid Bond with the obligation that, if successful, Tervita would need to post security for which the Surety would not receive premium and over which the Surety has no control. Would PWGSC consider revising the RFP to provide that a Performance Bond would be acceptable contract security?

A310. Please see Amendment 9 in which SC 28 Contract Security was modified to confirm that either a Letter of Credit or Performance Bond may be furnished by the Contractor following Contract award.

Q311. Is a PTTW required for all waste excavation areas (i.e., area south of Lakeshore Road)?

A311. Bidders are to comply with the requirements defined in the tender documents. Article 1.6.2 of Section 02 61 00 details the requirements associated with the excavation of waste including the preparation and submittal of a Waste Excavation Plan. Article 1.11 stipulates that the contractor is to obtain all Federal, Provincial and Municipal permits and licenses. Article 3.7.1 stipulates that water entering the work areas is to be managed in accordance with Section 01 35 43.

Article 1.6.1.3 of Section 01 35 43 stipulates that the Contractor is to prepare and submit a detailed Environmental Protection Plan comprising, among other requirements, a Water and Leachate Management Plan (sub article .8). The Plan is to address all regulatory requirements and satisfy the project needs as set forth in Article 3.13. The Contractor's plan is to detail the control measures necessary to remain within the constraints imposed by the water handling facilities and regulatory restrictions. The Contractor's Plan is also to identify and satisfy any required permits or requirements of authorities having jurisdiction (including local and provincial); and the Contractor is to accomplish such compliance requirements prior to undertaking the affected work as defined in Section 02 61 00 Article 1.11.

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Q312. With the recent change for final submission to January 15, 2015, will the due date for questions also be revised? If so, can you please provide the extended due date for questions?

A312. The question period, as stated in Amendment 20 is "no later than twenty-one (21) calendar days prior to the date set for solicitation closing".

Q313. The Region of Durham places all roads within its jurisdiction under weight restriction regulation each year from approximately March 1 until May 1. The specific period is set annually and the period of restriction may vary depending on the conditions in the specific area, which would include Newtonville Rd south of the 401. Could you please clarify if PWGSC has requested an under weight restriction exemption from the municipality for this project?

A313. The Contractor is required to abide by and consider seasonal under weight restrictions in all its plans to complete the project work. The Contracting Authority has not requested weight restriction exemptions from the Municipality. The contractor is to identify, apply for, obtain and pay as may be required for all permits, fees and authorities necessary to undertake and complete the work. General Conditions, R2810, Article 1.8 stipulates in part "... the Contractor shall obtain and maintain all permits, certificates, licences, registrations and authorizations required for the lawful performance of the Work.'

Q314. The market feedback we are getting to underwrite the Professional Liability policy is not positive regarding adding Her Majesty the Queen in Right of Canada as insured. Would PWGSC consider revising this requirement?

A314. Please refer to Appendix 9 - Certificate of Insurance forming part of this Amendment. Professional Liability Insurance requirements have been removed.

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SECTION B - MODIFICATIONS TO THE REQUEST FOR PROPOSAL

Delete: Appendix 1 – Combined Price Form, in its entirety

Insert:

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 PWGSC.
2. PWGSC in its sole discretion 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.

LUMP SUM AMOUNT

The Lump Sum Amount designates Work to which a Lump Sum Arrangement applies.

Work included in the Lump Sum Amount represents all work not included in the unit price table nor the cash Allowances.

LUMP SUM AMOUNT (LSA) Excluding applicable tax(es)	
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CASH ALLOWANCES

Cash allowances for the following, unless otherwise specified, covers total net cost to Contractor for:

- | | |
|--|-------------|
| 1. Non-potable well – Section 01 52 00 | \$25,000.00 |
| 2. Electronic Security System - Section 28 13 00 | \$77,000.00 |
| 3. Control System Programming - Section 40 90 00 | \$55,000.00 |

TOTAL CASH ALLOWANCES (CA) Excluding applicable tax(es)	\$157,000.00
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UNIT PRICE TABLE

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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.
- c) The unit prices include overhead, escalation, profit and all other related charges including labour, material, fabrication and installation. The estimated quantities below are an approximation and not a representation or guarantee of the quantities required.

Division 01 - General

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	SECTION 01 35 29 HEALTH AND SAFETY REQUIREMENTS	Lot	1		\$
2	SECTION 01 35 30 RADIATION PROTECTION PLAN	Lot	1		\$
3	SECTION 01 35 43 ENVIRONMENTAL PROCEDURES	Lot	1		\$
4	SECTION 01 45 00 CONSTRUCTION QUALITY CONTROL	Lot	1		\$
5	SECTION 01 52 00 CONSTRUCTION FACILITIES	Lot	1		\$
6	SECTION 01 56 00 TEMPORARY BARRIERS AND ENCLOSURES FOR SOIL REMEDIATION	Lot	1		\$
7	SECTION 01 74 20 CONSTRUCTION / DEMOLITION WASTE MANAGEMENT AND DISPOSAL	Lot	1		\$
8	SECTION 01 75 10 VERIFICATION SAMPLING AND LABORATORY SUBMISSION PROTOCOL				
a	Laboratory Analysis of Primary COPCs	Each	7,700		\$
b	Laboratory Analysis of Primary and Secondary COPCs (Final Verification and Stockpile Sampling)	Each	1,000		\$
TOTAL DIVISION 01					\$

Division 02 – Existing Conditions

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	Section 02 41 13.14 ASPHALT PAVING REMOVAL				

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
a	Contaminated Asphalt	m ²	25,478		\$
b	Unimpacted Asphalt (not contaminated)	m ²	8,764		\$
2	Section 02 41 23 SELECTIVE SITE DEMOLITION	Lot	1		\$
3	Section 02 61 00 EXCAVATION AND TRANSPORTATION OF WASTE MATERIAL				
a	Waste excavation, 550,000 tonne	Lot	1		\$
b	Waste excavation in excess of 550,000 tonne	Tonne	150,000		\$
TOTAL DIVISION 02					\$

Division 03 – Concrete

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	SECTION 03 30 00 CAST IN PLACE CONCRETE				
a	Concrete in bridge footings	m ³	93		\$
b	Concrete in bridge abutments and retaining walls	m ³	352		\$
c	Concrete in retaining walls	m ³	44		\$
d	Concrete in bridge barrier walls	m ³	45		\$
e	Concrete in bridge deck	m ³	163		\$
f	Concrete in bridge approach slabs	m ³	47		\$
g	Pumping Station No. 1 – Eq. Pond	Lot	1		\$
h	Pumping Station No. 2 – PGWMF SWM Pond	Lot	1		\$
i	Pumping Station No. 3 – East Gorge	Lot	1		\$
j	Pumping Station No. 4 – West Gorge	Lot	1		\$
k	Pumping Station No. 5 – Leachate Cell 1	Lot	1		\$
l	Pumping Station No. 6 – Leachate Cell 2	Lot	1		\$
2	SECTION 03 41 01 BELOW GRADE PRECAST STRUCTURAL CONCRETE	Lot	1		\$
3	SECTION 03 41 43 PRECAST STRUCTURAL CONCRETE BUILDINGS	Lot	1		\$
TOTAL DIVISION 03					\$

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Division 05 – Metals

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	SECTION 05 50 00 METAL FABRICATIONS				
a	Steel Railing	Lin m	105.5		\$
TOTAL DIVISION 05					\$

Division 08 – Openings

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	SECTION 08 90 00 LOUVERS AND VENTS				
a	Louvers and Vents	Lot	1		\$
TOTAL DIVISION 08					\$

Division 10 – Specialties

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	Section 10 14 53 TRAFFIC SIGNAGE				
a	Signage w/ wooden posts	Each	77		\$
b	Signage w/ steel posts	Each	75		\$
c	Relocate existing signage	Each	56		\$
d	Signage on concrete structures	Each	4		\$
e	Signage on concrete base	Each	6		\$
TOTAL DIVISION 10					\$

Division 23 – Heating, Ventilating and Air-Conditioning (HVAC)

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	SECTION 23 05 00 COMMON WORK RESULTS - MECHANICAL	Lot	1		\$
2	SECTION 23 05 11 MECHANICAL NOTES	Lot	1		\$

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
3	SECTION 23 05 13 COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT	Lot	1		\$
4	SECTION 23 05 93 MECHANICAL TESTING, ADJUSTING AND BALANCING (TAB) MAJOR WORKS	Lot	1		\$
5	SECTION 23 07 13 DUCT INSULATION	Lot	1		\$
6	SECTION 23 08 00 MECHANICAL COMMISSIONING	Lot	1		\$
7	SECTION 23 31 13.01 METAL DUCTS – LOW PRESSURE TO 500 PA	Lot	1		\$
8	SECTION 23 33 00 AIR DUCT ACCESSORIES	Lot	1		\$
9	SECTION 23 33 15 –HVAC CONTROLS, FIELD COMPONENTS AND INSTRUMENTS	Lot	1		\$
10	SECTION 23 34 00 HVAC FANS	Lot	1		\$
11	SECTION 23 82 39.01 UNIT HEATERS - ELECTRIC	Lot	1		\$
TOTAL DIVISION 23					\$

Division 26 – Electrical

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	SECTION 26 05 00 COMMON WORK RESULTS – FOR ELECTRICAL	Lot	1		\$
2	SECTION 26 05 03 SHORT CIRCUIT AND CO-ORDINATION STUDY, ARC FLASH AND GROUNDING STUDY	Lot	1		\$
3	SECTION 26 05 21 WIRES AND CABLES (0-1000 V)	Lot	1		\$
4	SECTION 26 05 28 GROUNDING – SECONDARY	Lot	1		\$
5	SECTION 26 05 29 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS	Lot	1		\$
6	SECTION 26 05 31 SPLITTERS, JUNCTION, PULL BOXES AND CABINETS	Lot	1		\$
7	SECTION 26 05 32 OUTLET BOXES, CONDUIT BOXES, AND FITTINGS	Lot	1		\$
8	SECTION 26 05 34 CONDUITS, CONDUIT FASTENINGS AND CONDUIT FITTINGS	Lot	1		\$
9	SECTION 26 05 43.01 INSTALLATION OF CABLES IN	Lot	1		\$

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
	TRENCHES AND IN DUCTS				
10	SECTION 26 05 80 FRACTIONAL HORSEPOWER MOTORS	Lot	1		\$
11	SECTION 26 05 81 MOTORS: 1 TO 200 HP, TO 600V	Lot	1		\$
12	SECTION 26 12 16.01 DRY TYPE TRANSFORMERS UP TO 600 V PRIMARY	Lot	1		\$
13	SECTION 26 24 16.01 PANELBOARDS BREAKER TYPE	Lot	1		\$
14	SECTION 26 27 16 ELECTRICAL CABINETS AND ENCLOSURES	Lot	1		\$
15	SECTION 26 27 26 WIRING DEVICES	Lot	1		\$
16	SECTION 26 28 16.02 MOULDED CASE CIRCUIT BREAKERS	Lot	1		\$
17	SECTION 26 28 23 DISCONNECT SWITCHES - FUSED AND NON-FUSED	Lot	1		\$
18	SECTION 26 29 03 CONTROL DEVICES	Lot	1		\$
19	SECTION 26 29 10 MOTOR STARTERS TO 600 V	Lot	1		\$
20	SECTION 26 36 23 AUTOMATIC LOAD TRANSFER EQUIPMENT	Lot	1		\$
21	SECTION 26 50 00 LIGHTING	Lot	1		\$
22	SECTION 26 52 00 EMERGENCY LIGHTING	Lot	1		\$
23	SECTION 26 53 00 EXIT SIGNS	Lot	1		\$
24	SECTION 26 56 19 ROADWAY LIGHTING AND TRAFFIC SIGNALIZATION	Lot	1		\$
25	SECTION 26 56 80 COMMISSIONING OF ELECTRICAL SYSTEMS	Lot	1		\$
26	SECTION 26 56 90 WIRING OF EQUIPMENT SUPPLIED BY OTHERS	Lot	1		\$
27	SECTION 26 05 34 CONDUITS, CONDUIT FASTENINGS AND CONDUIT FITTINGS – 100mm dia PVC CONDUIT ALONG LAKESHORE ROAD	Lin m	480		\$
TOTAL DIVISION 26					\$

Division 31 – Earthwork

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	SECTION 31 11 00 CLEARING AND GRUBBING				
a	General Clearing and Grubbing and Bird Breeding Surveys	Lot	1		\$
2	SECTION 31 11 01 EROSION AND SEDIMENT CONTROL				
a	Rock Flow Check Dams	Each	23		\$
b	Mud Mats	m ²	1,700		\$
c	Silt Fence	Lin m	110		\$
3	SECTION 31 22 13 GENERAL EARTHWORK AND ROUGH GRADING				
a	Submittals	Lot	1		\$
b	Topsoil stripping and stockpiling at LTWMF (in-place cubic metre volume removed from excavation)	m ³	86,920		\$
c	Excavation and stockpiling of LTWMF Clean Fill Material (in-place cubic metre volume removed from excavation)	m ³	572,238		\$
d	Excavation and stockpiling of Existing Clean Waste Cover Material/PGWMF Fill Material (in-place cubic metre volume removed from excavation)	m ³	136,954		\$
e	Backfill, compaction and grading at PGWMF with approved fill from the PGWMF (in-place)	m ³	136,954		\$
f	Backfill, compaction and grading at PGWMF and offsite remediation areas with approved fill from the LTWMF (in-place)	m ³	135,642		\$
g	Backfill, compaction and grading at LTWMF with approved fill from LTWMF (in-place)	m ³	119,575		\$
h	Earth excavation of bridge structure abutment foundations and wing wall foundations	m ³	272		\$
i	Earth excavation of bridge structure retaining wall foundations	m ³	293		\$
j	Backfilling for the bridge structure abutment walls, wing walls and retaining walls with Granular B Type 1	Tonne	2,687		\$
k	Earth Excavation including stripping for Detour Road Construction	m ³	8,213		\$

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
l	Placement of Fill for Detour Road Construction	m ³	3,573		\$
m	Earth Excavation including stripping for Lakeshore Road Construction	m ³	4,807		\$
n	Placement of Fill for Lakeshore Road Construction	m ³	6,394		\$
o	Placement of Fill for Detour Road Reinstatement for Underpass Removal	m ³	10,350		\$
p	Placement of Fill for Lakeshore Road Reinstatement for Underpass Removal	m ³	16,353		\$
q	All other General Earthwork and Rough Grading Requirements	Lot	1		\$
4	SECTION 31 23 19 DEWATERING				
a	Dewatering for underpass structure	Lot	1		\$
5	SECTION 31 23 33.01 CONTAINMENT MOUND FINAL COVER AND PERIMETER BERM				
a	Containment Mound Final Cover (in-place)	m ³	113,200		\$
b	Containment Mound Perimeter Berm (in-place)	m ³	15,000		\$
6	SECTION 31 24 14 SLOPE STABILITY				
a	Submittals	Lot	1		\$
b	Execution of slope stability requirements	Lot	1		\$
c	Inclinometers	Each	10		\$
d	Piezometers	Each	10		\$
7	SECTION 31 32 19.01 GEOTEXTILES				
a	Final cover geotextile	m ²	202,400		\$
8	SECTION 31 32 19.02 HDPE GEOMEMBRANE				
a	2.0 mm smooth geomembrane for Containment Mound	m ²	67,500		\$
b	2.0 mm textured geomembrane for Containment Mound	m ²	29,600		\$
c	1.5 mm textured geomembrane for Containment Mound	m ²	99,500		\$
d	1.5 mm textured geomembrane for equalization pond, SWM Ponds and drainage ditches	m ²	19,123		
e	1.5 mm smooth geomembrane for equalization pond, SWM Ponds and drainage ditches	m ²	4,095		\$

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
9	SECTION 31 32 19.13 GEOGRID SOIL STABILIZATION				
a	Geogrid Soil Stabilization	m ²	5,850		\$
b	Woven Geotextile – Nichols Road	m ²	1,500		\$
c	0.25mm Polythene Sheet – Nichols Road	m ²	1,500		\$
10	SECTION 31 32 40 COMPACTED CLAY LINER				
a	Containment Mound (in-place)	m ³	70,800		\$
b	Equalization and Stormwater Ponds and Drainage Ditches (in-place)	m ³	12,163		\$
c	Electrical conductivity sensor nests	Each	10		\$
d	Electrical conductivity measuring system	Lot	1		\$
11	SECTION 31 32 50 GEOSYNTHETIC CLAY LINER				
a	Geosynthetic Clay Liner	m ²	117,712		\$
12	SECTION 31 32 60 DRAINAGE GEOCOMPOSITES				
a	Drainage Geocomposite (East Gorge Groundwater Collector - PGWMF)	m ²	14,700		\$
b	Drainage Geocomposite (Leachate Collection System - Containment Mound)	m ²	97,100		\$
c	Drainage Geocomposite (Final Cover -Containment Mound)	m ²	99,500		\$
d	MH1 & 2 – OPSD 701.012	Each	2		\$
f	Drainage trench and pipe at valley (East Gorge Groundwater Collector - PGWMF)	Lin m	170		\$
g	Drainage trench and pipe along toe of side slope ((East Gorge Groundwater Collector - PGWMF)EGGC)	Lin m	130		\$
h	Drainage trench and pipe (non-perforated) for (East Gorge Groundwater Collector - PGWMF)	Lin m	215		\$
13	SECTION 31 32 70 GRANULAR MATERIALS				
a	Leachate sumps (all elements)	Each	2		\$
b	Concrete Sand	Tonne	167,500		\$
c	Coarse Sand and Gravel	Tonne	28,500		\$
d	9.5 to 26.5 mm clear stone	Tonne	65,100		\$

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
e	Granular A	Tonne	63,500		\$
f	Coarse Gravel and Cobble	Tonne	98,100		\$
g	53 mm clear stone	Tonne	20,000		\$
h	Piezometers and Cable	Each	10		\$
i	Terminal Box and Readout Unit	Each	2		\$
14	SECTION 31 32 80 THERMAL CONDUCTIVITY SENSOR				
a	Thermal Conductivity Sensors	Each	20		\$
b	Controller	Each	2		\$
15	SECTION 31 32 90 SOIL MOISTURE SENSOR				
a	Soil Moisture Sensor	Each	20		\$
b	Data logger	Each	20		\$
c	Laboratory Calibration	Lot	1		\$
16	SECTION 31 36 10 GABIONS				
a	Gabions	m ³	110		\$
17	SECTION 31 37 11 RIP RAP				
a	300mm Depth R10 c/w non-woven geotextile	m ²	5,445		\$
b	2 – Layers 300mm Rip Rap at East Gorge	m ²	928		\$
c	2 – Layers 300mm Rip Rap at West Gorge	m ²	242		\$
d	300mm thick on culvert outlets	m ²	476		\$
TOTAL DIVISION 31					\$

Division 32 – Exterior Improvements

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	SECTION 32 01 11.01 PAVEMENT CLEANING AND MARKING REMOVAL				
a	Pavement Cleaning	m ²	2,500		\$
b	Removal of pavement markings	Lin m	200		\$
2	SECTION 32 11 23 AGGREGATE BASE COURSES				
a	Gran A	Tonne	33,360		\$

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
b	Gran B Type 1	Tonne	18,490		\$
c	Angular Subbase	Tonne	118,250		\$
d	19mm Crusher Run Limestone	Tonne	1,646		\$
3	SECTION 32 12 17 ASPHALTIC CONCRETE PAVING				
a	HL8 base course PG64-28 – 2 lifts for 120mm	Tonne	8,820		\$
b	HL8 base course PG58-28 – 1 lift for 50mm	Tonne	1,050		\$
c	HL8 base course PG58-28 – 1 lift for 75mm	Tonne	914		\$
d	HL3 Asphalt surface course PG58-28 -1 lift 40 mm	Tonne	1,550		\$
e	HL1 Asphalt surface course PG58-28 – 1 lift 40mm	Tonne	2,900		\$
f	HL3 Asphalt Paving for Blvd and Spillways	m ²	120		\$
g	Asphalt membrane waterproofing and protection board	m ²	433		\$
h	Forming and filling grooves	Lin m	78		\$
4	SECTION 32 14 43 GRASS PAVING SYSTEM				
a	Grass Paving System	m ²	80		\$
5	SECTION 32 16 15 CONCRETE WALKS, CURBS AND GUTTERS				
a	OPSD 310.010	Lin m	5		\$
b	OPSD 600.040	Lin m	1,342		\$
c	OPSD 600.060	Lin m	63		\$
d	Gutter Outlet	Each	13		\$
6	SECTION 32 17 24 PAVEMENT MARKINGS				
a	10cm solid yellow line painted	Lin m	1,675		\$
b	10cm solid white line painted	Lin m	3,366		\$
c	45cm solid white thermo-plastic	Lin m	15		\$
d	Pre-marking	Lot	4		\$
7	SECTION 32 31 13 BLACK VINYL CHAIN LINK FENCES AND GATES				
a	Black vinyl chain link fence with barbed wire	Lin m	976		\$
b	Black vinyl gates (9 m)	Each	1		\$
c	Black vinyl gates (6 m)	Each	2		\$
8	SECTION 32 31 14 STEEL CHAIN LINK FENCES AND GATES				

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
a	Galvanized chain link fence (1.8 m with barbed wire)	Lin m	581		\$
b	Galvanized chain link fence (1.8 m without barbed wire)	Lin m	1,575		\$
c	Galvanized gates (9 m double swing gate)	Each	2		
d	Galvanized gates (6 m double swing gate)	Each	3		\$
e	Galvanized gates (1.2 m single swing man gate)	Each	1		\$
9	SECTION 32 31 26 WIRE FENCES AND GATES				
a	Wire fences	Lin m	24		\$
10	SECTION 32 91 19.13 TOPSOIL PLACEMENT AND GRADING				
a	Topsoil placement and grading	m ²	543,207		\$
b	Topsoil for tree pits	Each	230		\$
c	Laboratory analysis	Each	50		\$
11	SECTION 32 92 19.16 HYDRAULIC SEEDING				
a	Grass mixture including fertilizer and mulch	m ²	813,058		\$
b	Erosion Control Mat / Erosion Protection Mat	m ²	15,000		\$
12	SECTION 32 92 23 SODDING				
a	Turf Grass Nursery Sod	m ²	7,552		\$
b	Staked Sod in Ditch Invert	m ²	14,813		\$
13	SECTION 32 93 10 TREES, SHRUBS AND GROUND COVER PLANTING				
a	60mm Cal, Deciduous Tree	Each	162		\$
b	60mm Cal, Coniferous Tree	Each	68		\$
c	Watering	Lot	1		\$
14	SECTION 32 93 43.01 TREE PRUNING				
a	Tree Pruning	Lot	1		\$
TOTAL DIVISION 32					\$

Division 33 – Utilities

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	SECTION 33 05 14 MAINTENANCE HOLES AND CATCH BASINS				

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
a	OPSD 701.010 Depth 1-2m	Each	1		\$
b	OPSD 701.010 Depth 2-3m	Each	3		\$
c	OPSD 701.010 Depth 3-4m	Each	4		\$
d	OPSD 701.011 Depth 1-2m	Each	1		\$
e	OPSD 701.011 Depth 3-4m	Each	1		\$
f	OPSD 701.011 Depth 5-6m c/w safety grate per OPSD 404.020	Each	1		\$
g	OPSD 705.040	Each	1		\$
h	Connect to Ex MH	Each	1		\$
i	Connect to Ex Metering Chamber	Lot	1		\$
j	OPSD 702.040	Each	1		\$
k	Adjusting tops of existing maintenance holes or catchbasin	Each	15		\$
l	Measure OPSD 804.040 outfall	Each	1		\$
m	Measure OPSD 1003.031 Internal Drop Structure	Each	2		\$
2	SECTION 33 05 15 PRECAST CONCRETE VALVE CHAMBER				
a	Air Valve Chamber	Each	6		\$
b	Drain Valve Chamber	Each	3		\$
c	Valve Chamber 6	Each	1		\$
d	Valve Chamber 7	Each	1		\$
3	SECTION 33 34 00 UTILITY FORCE MAINS				
a	50 mm dia HDPE DR 17	Lin m	380		\$
b	100 mm dia HDPE DR 11 (installed in 300mm dia HDPE sleeve)	Lin m	80		\$
c	100 mm dia HDPE DR 11	Lin m	34		\$
d	100 mm dia HDPE DR 17	Lin m	146		\$
e	150 mm dia HDPE DR 11	Lin m	1,186		\$
f	150 mm dia HDPE DR 17	Lin m	106		\$
g	200 mm dia HDPE DR 17	Lin m	20		\$
h	150 mm dia HDPE DR 11 – HDD	Lin m	234		\$
i	300 mm dia HDPE DR 17 c/w casing end seals and casing spacers - HDD	Lin m	80		\$

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
4	SECTION 33 42 13 PIPE CULVERTS				
a	400 mm CSP 2.0PG	Lin m	269		\$
b	400 mm CSP 2.8PG	Lin m	24		\$
c	500 mm CSP 2.0PG	Lin m	118		\$
d	600 mm CSP 2.0PG	Lin m	129		\$
e	560x420 mm CSP 2.0PG	Lin m	22		\$
f	700 mm CSP 2.8PG	Lin m	23		\$
g	750 mm CSP 2.0PG	Lin m	55		\$
h	800 mm CSP 2.0PG	Lin m	41		\$
i	900 mm CSP 2.0PG	Lin m	29		\$
j	Clay Trench Plug	Each	31		\$
5	SECTION 33 44 00 STORM UTILITY DRAINS AND DISCHARGE PIPES				
a	150mm dia CL150 DR18 PVC Overflow pipe	Lin m	5		\$
b	150mm dia HDPE DR17 Overflow pipe	Lin m	6		\$
c	200mm dia PVC DR35 Sewer (Eq.Pond)	Lin m	14		\$
d	250mm dia PVC DR35 Discharge Sewer	Lin m	415		\$
e	300mm dia PVC DR35 Discharge Sewer	Lin m	160		\$
f	250mm dia HDPE DR11 Discharge Sewer (Open Cut)	Lin m	12		\$
g	300mm dia HDPE DR11 Storm Sewer (Open Cut)	Lin m	10		\$
h	450 mm dia CONC CL65D (Concrete Encased) Storm Sewer	Lin m	36		\$
i	525 mm dia CONC CL65D (Concrete Encased) Storm Sewer	Lin m	36		\$
j	525mm dia CONC CL140D Storm Sewer	Lin m	20		\$
k	675mm dia CONC CL140D Storm Sewer	Lin m	22		\$
l	750mm dia CONC CL140D Storm Sewer	Lin m	32		\$
m	250mm dia HDPE Discharge Sewer by HDD	Lin m	70		\$
n	300mm dia HDPE Storm Sewer by HDD	Lin m	70		\$
o	Concrete bedding and encasement of pipes	Lin m	92		\$
6	SECTION 33 46 16 SUBDRAINAGE PIPING				

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
a	100mm dia Perf. HDPE Subdrain c/w filtersock, Gran 'B' bedding	Lin m	2,250		\$
b	150mm dia Perf. HDPE Subdrain c/w filtersock, 19mm dia Clear Stone Bedding, geotextile trench-wrap	Lin m	936		\$
c	150mm dia Non- Perf. CSP Outlets	Lin m	104		\$
d	Interceptor Subdrain, 150mm dia Perf. HDPE Subdrain c/w filtersock, clear stone bedding and trench-wrap in roadway.	Lin m	50		\$
e	Interceptor Subdrain, 150mm dia Perf. HDPE Subdrain c/w filtersock, bedding and trench-wrap in embankment including granular drainage blanket.	Lin m	314		\$
f	Rodent Grates	Each	13		\$
7	SECTION 33 46 16.01 GRANULAR SEALING WITH ASPHALT				
a	Granular sealing with asphalt	m ²	23,860		\$
TOTAL DIVISION 33					\$

Division 34 – Transportation

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	SECTION 34 17 39 VEHICLE STEEL BEAM GUIDE RAIL				
a	Roadside steel beam (W-beam) guide rail (OPSD 912.130) with Channel	Lin m	416		\$
b	Steel beam (W-beam) guide rail energy attenuating terminals (OPSD 922.181, OPSD 912.235)	Each	2		\$
c	Connection to the underpass structure (OPSD 912.430)	Each	4		\$
2	SECTION 34 71 13 TEMPORARY PRECAST CONCRETE BARRIERS				
a	Temporary Precast Concrete Barriers	Lin m	670		\$
b	Energy Attenuations	Each	2		\$
c	Remove, Salvage, Relocate Barrier	Lin m	957		\$
d	Remove, Salvage, Relocate Energy Attenuations	Each	2		\$

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
TOTAL DIVISION 34					\$

Division 40 – Process Integration

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	SECTION 40 05 13 PROCESS PIPING	Lot	1		\$
2	SECTION 40 05 23 PROCESS VALVES	Lot	1		\$
3	SECTION 40 90 00 INSTRUMENTATION AND CONTROL FOR PROCESS SYSTEMS	Lot	1		\$
4	SECTION 40 95 33 PROCESS CONTROL NETWORKS	Lot	1		\$
TOTAL DIVISION 40					\$

Division 43 – Process Liquid Handling

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	SECTION 43 20 70 SUBMERSIBLE MOTORS	Lot	1		\$
2	SECTION 43 21 00 PROCESS EQUIPMENT INSTALLATION	Lot	1		\$
3	SECTION 43 21 02 VERTICAL TURBINE PUMPS	Lot	1		\$
4	SECTION 43 21 19 ELECTRIC PISTON-ROD PUMPS	Lot	1		\$
5	SECTION 43 21 39 SUBMERSIBLE LIQUID PUMP	Lot	1		\$
TOTAL DIVISION 43					\$

Division 46 – Water and Waste Water Equipment

Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	SECTION 46 21 00 GENERAL PROCESS PROVISIONS	Lot	1		\$
TOTAL DIVISION 46					\$

Hourly Rate Table for Potential Changes to aspects of the Work (if and when required by Owner).

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Item	Description	Unit of Measurement	Est. Qty	Price per Unit	Total Price
1	Project Manager	Hour	200	\$	\$
2	Superintendent	Hour	500	\$	\$
3	Scheduler	Hour	100	\$	\$
4	Health and Safety Officer	Hour	200	\$	\$
5	Radiation Protection Specialist	Hour	700	\$	\$
6	Geotechnical Specialist	Hour	500	\$	\$
7	Hazmat Specialist	Hour	200	\$	\$
TOTAL Hourly Rates					\$

The estimated quantities set out in the Hourly Rate Table are only being used in respect of the bid evaluation process and are not a representation or indication of the value of changes in the Work which may be applicable to the Contract. The hourly rates in the Hourly Rate Table shall be in compliance with GC 6.4.1.2 of R2950D and if the Contract is awarded to the bidder, such hourly rates shall be subject to audit by the Owner and shall not be higher than rates prevailing in the place of the Work.

Extra Work for Hourly Equipment

Extra work for hourly equipment charge-out rates for various equipment shall be as per OPSS 127-Schedule of Rental Rates for Construction Equipment, including Model and Specification Reference.

TOTAL EXTENDED AMOUNT

TOTAL EXTENDED AMOUNT (TEA= Sum of Divisions 1-46 + Laboratory Analysis + Hourly Rate Table) Excluding applicable tax(es)	
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TOTAL BID AMOUNT

TOTAL BID AMOUNT (LSA + CA +TEA) Excluding applicable tax(es)	
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The Bidder acknowledges that whenever additions or deletions involve items listed above in the Unit Prices Table, the unit prices entered will be used in determining the amount of the extra or deduction regardless of the quantity provided. Confirmation of all materials measured for costing by tonnage must be submitted to Departmental Representative. The Contractor shall be responsible for all co-ordination activities.

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Delete: SC02 Insurance Terms, in its entirety

Insert:

SC02 INSURANCE TERMS

1. Insurance Contracts

- (a) The Contractor must, at the Contractor's expense, obtain and maintain insurance contracts in accordance with the requirements of Certificate of Insurance. Coverage must be placed with an Insurer licensed to carry out business in Canada.
- (b) 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.

2. Period of Insurance

- (a) The policies required in the Appendix 9, Certificate of Insurance must be in force from the date of contract award and be maintained throughout the duration of the Contract. The Contractor shall be required to add or adjust additional insured coverage to include any assignees becoming the Owner throughout the duration of the Contract, as referenced in SI 19.
- (b) The Contractor must be responsible to provide and maintain coverage for Products/Completed Operations hazards on its Commercial General Liability insurance policy, for a period of three (3) years beyond the date of the Certificate of Substantial Performance.

3. Proof of Insurance

- (a) Before commencement of the Work, and no later than thirty (30) days after acceptance of its bid, the Contractor must deposit with the Owner a Certificate of Insurance on the form attached herein.
- (b) Upon request by the Owner, the Contractor must provide originals or certified true copies of all contracts of insurance maintained by the Contractor pursuant to the Certificate of Insurance.

4. Insurance Proceeds

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In the event of a claim, the Contractor must, without delay, do such things and execute such documents as are necessary to effect payment of the proceeds.

5. Coverage Requirements

The commercial general liability insurance shall name the Owner, AECL, Canada, CNL, the Municipality of Clarington and such other entities identified by the Owner as an additional insured. The property insurance to be procured and maintained by the Contractor shall be in the joint names of, the Owner, AECL, Canada, CNL, the Municipality of Clarington and such other entities identified by the Owner.

6. Deductible

The payment of monies up to the deductible amount made in satisfaction of a claim must be borne by the Contractor. The deductibles shall not be more than:

- (a) Commercial General Liability - \$500,000
- (b) Automobile Liability - \$200,000
- (c) Contractors Pollution Liability - \$250,000
- (d) Builder's Risk/Installation Floater Liability - \$50,000

Delete: Appendix 9 – Certificate of Insurance

Insert:

APPENDIX 9 - CERTIFICATE OF INSURANCE

Description and Location of Work Port Granby Long Term Waste Management Facility Port Granby, Ontario				Contract No.
				Project No. R.023276.217
Name of Insurer, Broker or Agent City		Province	Postal Code	Address (No., Street)
Name of Insured (Contractor) City		Province	Postal Code	Address (No., Street)
Additional Insured ;				
Type of Insurance (Required when Checked)	Insurer Name and Policy Number	Inception Date D / M / Y	Expiry Date D / M / Y	Limits of Liability

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	<p>(b) \$20,000,000 General Aggregate Limit per policy year if the policy contains a General Aggregate; and</p> <p>(c) \$5,000,000 Products/Completed Operations Aggregate Limit.</p> <p>Umbrella or excess liability insurance may be used to achieve the required limits.</p>	<p>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>
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AUTOMOBILE LIABILITY INSURANCE

1. The Contractor must obtain Automobile Liability 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 \$5,000,000 per accident or occurrence.
2. The policy must include the following:
 - (a) Third Party Liability - \$2,000,000 Minimum Limit per Accident or Occurrence
 - (b) Accident Benefits – all jurisdictional statutes
 - (c) Uninsured Motorist Protection
 - (d) Notice of Cancellation: T The Insurer will endeavour to provide the Owner thirty (30) days written notice of cancellation.
 - (e) OPCF/QEF/SEF #4B – Permission to Carry Radioactive Material Endorsement
 - (f) Liability for Physical Damage to Non-owned Automobiles: Ontario OPCF 27 or 27B / Quebec: QEF #27 / Other Provinces: SEF#27
 - (g) OPCF/SEF/QEF #44 or #44R - Family Protection Endorsement - Private Passenger Vehicles.

CONTRACTORS POLLUTION LIABILITY INSURANCE

1. The Contractor must obtain, Contractors Pollution Liability 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 \$25,000,000 per accident or occurrence and in the annual aggregate.
2. 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.
3. The Contractors Pollution Liability 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 Owner 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.
 - (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.
 - (e) Incidental Transit Extension: The policy must extend to losses arising from any waste, products or materials transported, shipped, or delivered via any transportation mode to a location beyond the boundaries of a site at which the Contractor or any entity for which the Contractor is legally liable is performing or has performed the operations described in the contract.
 - (f) Litigation Rights: Pursuant to subsection 5(d) of the *Department of Justice Act*, S.C. 1993, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an acknowledgement of receipt:

For the province of Quebec, send to:
 Director Business Law Directorate,
 Quebec Regional Office (Ottawa),
 Department of Justice,
 284 Wellington Street, Room SAT-6042,
 Ottawa, Ontario, K1A 0H8

For other provinces and territories, send to:
 Senior General Counsel,
 Civil Litigation Section,
 Department of Justice

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234 Wellington Street, East Tower
Ottawa, Ontario K1A 0H8,

A copy of the letter must be sent to the Owner. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(s) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.

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Q315. In Appendix P (Port Granby Remediation Verification Procedure), Appendix A, (Standard Operating Procedure Primary, Secondary, and Signature Parameter Sample Analyses), SOP-002 Section 6.1 (page 38) it states that “The analytical data shall be reported without correction, unless correction is clearly identified and described. Soil data shall be reported on a dry weight basis.”

a) Could you please clarify what is meant by “reported without correction”? We have heard various interpretations of this.

b) Will sample moisture content be required for laboratory reporting? If not, would it be acceptable for samples to be tested and reported on an as-received basis as opposed to a dry weight basis?

A315. a) The “without correction” refers to presenting the data with appropriate laboratory qualifiers. This would include non-detect and negative data.

b) The samples are to be prepared and dried according to laboratory SOPs and reported on a dry weight basis. Moisture content is not required.

Q316. In our review of the specifications, we could not find the Specification Section 23 33 14, Dampers - Balancing. Can this please be provided?

A316. Damper Balancing is not required for this Contract. Section 23 33 14 should not have been included; and the Bid and Acceptance Form has been amended accordingly.

Q317. Will PWGSC please provide a copy of the following report, which is referenced frequently in the specs for the Port Granby project: Golder (1980) Eldorado Nuclear Limited, Slope Stability Analyses, Bluffs and East Gorge, Port Granby Waste Management Area Report No. 801-1015-1?

A317. The study was undertaken in consideration of the continued maintenance plan for the Port Granby Waste Management Area over the subsequent five years. The report, Eldorado Nuclear Limited, Slope Stability Analyses, Bluffs and East Gorge, Port Granby Waste Management Area Report No. 801-1015-1 was issued in 1980. The recommendations and conclusions provided in that report are no longer applicable and the investigative information has been superseded by more recent data reports. As such the report will not be provided.

Q318. Drawing PGWMF-E-20; plan note #2

(a) Can the requirement that the contractor shall monitor and upgrade if necessary, the existing substation switchboard and transformer, during the 5 year construction plus 15 years be removed?

A318. AECOM - Note #2 of drawing PGWMF-E-20 and LTWMF-E-20 is now deleted (see Addendum 6).

Q319. As a follow-up to Q&A 38: Production rates and costs to perform excavation work are impacted by multiple factors including terrain of excavation areas, depth of excavations, quantity of clean topsoil/overburden removals and handling, groundwater flows, quantity of waste materials, type of

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waste materials being excavated (soils, saturated soils, construction/industrial debris, drums, "toothpaste" like materials, "peanut butter" like materials, chemical contamination constituents, radiological contamination level, etc.). Please provide specifics on the items above for bidders to use as a Basis of Estimate to develop their unit rate pricing for the excavations within Regions 7B, 1, 4 and Location 205, or remove the performance of these excavations from the requirements of the scope at this time but which will be added back into the contract following negotiations of a contract modification once the characterizations of these areas are complete and the removal requirements are determined by the Departmental Representative.

A319. Remediation work as required within Regions 1, 4, 7B and at offsite remediation areas (i.e. along Lakeshore Road, Nichols Road South, and Townline Road) as required is a part of this contract. It is anticipated that work will include remediation of marginally contaminated soil with the limits and extents to be confirmed prior to and during excavation activities. The contract documents provide the approximate locations of these areas which is indicative of the potential physical constraints that may be encountered. As with all other remediation areas, the final limits excavation can only be confirmed by the completion and undertaking of verification sampling activities. Payment for all excavation and remediation work will be based on the lot and unit price for the excavation and transport of waste material (Refer to Specification Section 02 61 00 Articles 1.2.2. and 1.2.3).

Q320. Unit Price Table – Item 3b - Please provide basis/conditions of excavation factors for the additional 150,000 tonne of Waste Excavation included within this line item. Factors affecting production/costs include terrain of excavation areas, depth of excavations, quantity of clean topsoil/overburden removals and handling, groundwater flows, quantity of waste materials, type of waste materials being excavated (soils, saturated soils, construction/industrial debris, drums, "toothpaste" like materials, "peanut butter" like materials, chemical contamination constituents, radiological contamination level, etc.). Please provide specifics on the items above for bidders to use as a Basis of Estimate to develop their unit rate pricing, or consider converting this item to an Allowance Item which will be negotiated or billed on a T&M basis in the field depending upon the type of work being performed.

A320. There is the potential for excavations to be larger than contemplated. The final limits excavation can only be confirmed by the completion and undertaking of verification sampling activities. Payment for all excavation and remediation work will be based on the lot and unit price for the excavation and transport of waste material (Refer to Specification Section 02 61 00 Articles 1.2.2. and 1.2.3). The additional 150,000 tonnes would apply only when and if the initial 550,000 tonnes (Item 3a) is exceeded.

Q321. DWG LTWMF-E-21 Single Line Diagram – Are there existing empty conduits inside the existing building of the WWTP from existing MCC-E01 and the switchboard to the duct bank that was completed under contract B for use of the new power, control and fiber optic cables?

A321. Refer to Addendum #1 Drawings LTWMF-E-10 and LTWMF-E-11.

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Q322. Will AECL require a RPT (radiation protection technician) to be at the excavation and placement during such work?

A322. Specification Section 01 35 30 Article 1.4.2 requires the Contractor to develop a Radiation Protection Plan; and Article 1.5.1 defines the Contractor's responsibility as it relates to radiation protection. The Contractor is required to assign personnel to comply with these requirements. AECL will not provide detailed staff assignments for, nor direct, Contractor personnel.

Q323. Since the waste from PG will be transported by private road and never on a public road, the transportation regulations are not applicable. Will AECL require radioactive (class 7) material transportation training for all workers involved in transportation from PGWMF and compliance with transportation regulations? If we understand correctly there will be some training and compliance required for vicinity properties.

A323. It is the Contractor's responsibility to determine the requirements for compliance with all current applicable regulations related to the management and haulage of the subject waste within all areas of the work, from excavation to placement; and address such requirements in the contractor's Waste Excavation Plan that will be submitted as per Section 02 61 00, Article 1.6.2. Training requirements are defined over several sections. The Contractor's Waste Excavation Plan and Radiation Protection Plan are to detail training requirements for all personnel including staff assigned to waste excavation, management and haulage.

Q324. Specification Section 31 32 19.01-1.8.1 states that contractor is to assist the Departmental Representative (DR) with collecting samples – therefore is all testing required under Section 31 32 19.01-1.8 being performed and paid for by the DR?

A324. Clause 1.8.1 requires the General Contractor to assist the Departmental Representative (DR) in obtaining Quality Assurance samples when and where the DR chooses. The cost for QA sample analysis is by the Owner.

Q325. With respect to the Fuel index: Fuel, Paving and Liner pricing will be subject to fluctuations in the Price of oil. This will require contractors to include contingency in pricing. in lieu of bidders adding contingency, would the client entertain allowing the pricing to be tied to a Price index in order to standardize pricing and facilitate cost realism amongst all contractors. pricing adjustments would be made up or down to the unit rate based on changes in the index throughout the contractors proposed schedule

A325. No. It is the bidders' responsibility to best optimize pricing and allow for all cost variables and factors through the duration of the contract.

Q326. As per Appendix P – Port Granby Remediation Verification Procedure, the mechanism for pre-verification and soil verification is clear, in 4.1 bullet #3, and #4 outline notice that will be given to the contractor upon non-compliance, verbal, then written and in what time period (1 and 2 business days

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respectively). These days are tied to the DR receiving results, what is the expected turn-around-time associated with the sampling?

A326. The Contractor is responsible for identifying and retaining the analytical laboratory; and therefore in control of test results turnaround times. In other words, appropriate management of the turnaround times associated with sampling is entirely the responsibility of the Contractor and the laboratory retained by the Contractor.

Q327. Appendix P – Port Granby Remediation Verification Procedure, page 6 last statement, “The DR will provide the Contractor with authorization to proceed with additional remediation activities as required.” This statement is in reference to the verification procedures. Does the statement refer only to the area of verification as defined or to the entire work area under remediation?

A327. This statement only refers to areas undergoing remedial verification activities.

Q328. Section 40 90 00 – Can you please confirm if Control System Programming is part of the scope of work for this section and to be executed by the bidding contractor?

In Part 1.2 – Measurement and Payment – it says “An allowance for Control System Programming is carried on the Bid and Acceptance Form.” An allowance of \$55,000 has been allocated in Appendix 1.

In Part 1.6.6 – Scope of Work – “Allow for carrying the System Integrator (SI), selected by the Departmental Representative, to perform Control System Programming as a subcontractor under a specific cash allowance.”

Section 40 90 00 – Can you please confirm if Control System Programming is part of the scope of work for this section and to be executed by the bidding contractor?

In Part 1.2 – Measurement and Payment – it says “An allowance for Control System Programming is carried on the Bid and Acceptance Form.” An allowance of \$55,000 has been allocated in Appendix 1.

In Part 1.6.6 – Scope of Work – “Allow for carrying the System Integrator (SI), selected by the Departmental Representative, to perform Control System Programming as a subcontractor under a specific cash allowance.”

A328. Control system programming is part of the scope of the Contract. However, the programming shall be performed by a System Integrator, to be named by the Departmental Representative. The named firm is to be retained as a sub-contractor by the Contractor as per the respective cost allowance provided in the Basis of Pricing table. The sub-contractor will be managed and paid by the Contractor without additional markups through the contract.

Q329. PS-D-03 Note 3 states that pump type and drive for the reconfigured East Gorge pump station will be determined at the end of construction. In addition to the pumps, this reconfiguration will also affect the pump station electrical and controls. It is impossible to properly estimate the cost for this work with

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the little information provided. Please provide pump size, type, and revisions to the electrical and control design.

A329. There are no process or electrical related drawings for the pumps. The Contractor is to select the pumps based on the performance information provided in the Specification Section 43 21 39 Article 2.1.3.3 and provide the pump information to the Departmental Representative for review as part of the shop drawing submittal process.

Q330. If a biplanar geocomposite is offered as an alternative, must the manufacturer account for a higher transmissivity due to the increased biological clogging reduction factor in the transmissivity calculation? The triplanar geonet creates a three dimensional structure which keeps the geotextile above and below from crossing the geonet core, unlike the biplanar where the geotextile can clog more readily, sometimes by a factor of 5 times. If a biplanar is allowed as an alternative, what is the modified transmissivity with the higher biological clogging factor?

A330. Section 31 32 60 Articles 1.1.1, 1.1 2 and 1.1.3 stipulates where triplanar and biplanar geocomposite are to be installed. The required geocomposite properties including transmissivity values are given in Tables 1 and 2 at the end of the section for triplanar and biplanar geocomposites, respectively. Proponents are to bid to specification.

Q331. Both the biplanar and triplanar geocomposite have a transmissivity requirement based on a gradient of 0.1 and overburden stress of 10,000 PSF for the biplanar and 15,000 PSF for the triplanar per note 2 of each table. Could you please confirm if the boundary conditions are steel plate/geomembrane/geocomposite/sand/steel plate and if the seat time is 100 hours or more?

A331. Section 31 32 60 Article 1.4.1.11 references ASTM D4716-8 as does Note 2 of Tables 1 and 2 which defines the testing requirements including seating conditions and testing length. The boundary conditions are to represent field conditions, and include the materials that are proposed for use during construction.

Q332. In the project specifications Section 31 32 19.02 Page 11 part 1.8.9 requires an Electrical Leak Detection Survey to be performed. Does the engineer intend on using the geomembrane to conduct the current for the Electrical Leak Detection Survey? If so, please clarify if the geomembrane should be electrically backed or have an electrically conductive layer integral to the HDPE.

A332. The geomembrane is not going to act as a conductor for the Electrical Leak Detection Survey and thus is not required to be electrically backed or contain an electrically conductive layer.

Q333. Regarding Pumping Stations 3, 4, 5 & 6: 1. Would the Owner please provide details of the roof hip structure? No reference to material specifications on joists, sheathing, membrane, or insulation have been provided.

A333. The above grade building for pump stations 3,4,5 & 6 are to be engineered by the pre-fabricated building supplier. Please refer to specification 03 41 43 Precast Structural Concrete Buildings.

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Q334. Regarding Pumping Stations 3, 4, 5 & 6: 4. Please provide details for the precast joint at the foundation (interior and exterior caulk joint with backer rod?)

A334. This detail is to be provided by the pre-fabricated building supplier as part of their shop drawing submittal package. This is noted on Drawings PS-S-04, PS-S-06, and PS-S-07.

Q335. Related to Controls & Electrical:

Drawing # PGWMF-E-21 DP-2 SHOWS ONLY LCP-01210 control panel however drawing # PGWMF-E-70 refers to control panels # LCP-01210 & LCP-01220. Please advise if control panel LCP—01220 exists or if there is a typographical error.

A335. Control panel LCP—01220 exists; drawing PGWMF-E-21 will be modified for Addendum 6 to refer to the two control panels, LCP-01210 and LCP-01220.

Q336. Related to Electrical Works:

Can you please provide additional clarity on Note #2 on PGWMF-E-20 and LTWMF-E-20. Is there a maintenance agreement with these works or a lump sum amount for long term maintenance?

To maintain uniformity, what is the make/manufacturer of the existing switchgear?

A336. The Owner will maintain the existing equipment during construction and all equipment post construction through an existing maintenance agreement. The Contractor will be responsible for maintaining any equipment installed by them for the duration of the Contract. The manufacturer of the existing switchboard is Square D c/w QMB SAFLEX Units 1000A 600V 3PH 3W. Note #2 of drawings PGWMF-E-20 and LTWMF-E-20 will be deleted through Addendum 6.

Q337. Section 43 21 39.2.1.3.3 – Please advise if there are any process or electrical related drawings for these pumps. If so please advise on where they can be found, as this will help is our pump and controls selection.

A337. There are no process or electrical related drawings for the pumps associated with Specification Section 43 21 39 Article 2.1.3.3. Contractor are to select the pumps based on the performance information provided in the specification section and provide the pump information to the Departmental Representative for review as part of the shop drawing submittal process.

Q338. Section 43 21 39.3.6.2 – Our pumps are manufactured and tested in Sweden. All travel expenses shall not be borne to the manufacturer and shall be covered by others. Please advise if this is acceptable.

A338. Specification Section 43 31 39 Article 3.6.2 will be revised through Addendum 6 to remove the requirement to pay for the Departmental Representative to witness factory testing.

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Q339. The PHAI Dust Management Requirements and Plan (4500-509200-PLA-001) Revision R1 is included in Appendix V of the Port Granby Long Term Waste Management Facility Tender Notice while Revision 2 of the Plan is available to the public in PHAI MO Project Information Exchange (PIE). Will Revision 2 of the Plan be applicable during the execution of the Port Granby Long Term Waste Management Facility Project?

A339. Revision 2 will be provided through Addendum 6. Yes, the document is applicable under the contract.

Q340. Drawing PS-D-05, Drawing PS-D-06, Drawing PS-S-01 and Drawing PS-S-02 detail the pump station structures as 2100mm dia. structures, precast structures of this size are not readily available, closes standard sizes are 1800mm or 2400mm dia. Please clarify if the standard precast structures would be suitable.

A340. Bids must be in accordance with the specifications in the tender documents.

Q341. Are we responsible for correcting deficiencies in the electrical design, and include the additional cost, or do we bid to print with the expectation that additional compensation will be available to cover design deficiencies?

A341. Bidders are advised to bid in accordance with the information provided in the drawings, specifications and addendums issued during the tendering period.

Q342. The following questions relate to Addendum 12:

(a) The Golder Associates Report provided is stamped as DRAFT, is there a Final report?

(b) Golder Associates refers to test pit investigation performed in Fall of 2012 which provides the grain size distribution and plasticity of the clay for all three sources. Please provide the preliminary test pit investigation performed by Golder Associates in Fall of 2012 which is referenced in the "Survey of Potential Sources of Clay Liner Material, Follow-Up Laboratory Testing for Hydraulic Conductivity, Port Hope and Port Granby Projects, dated March 04, 2013, prepared by Golder Associates (Project No. 12 - 1111-0089).

(c) Golder Associates performed survey of potential sources of clay liner material to be used at the LTWMF at Port Granby. The findings were reported in "Survey of Potential Sources of Clay Liner Material, Follow-Up Laboratory Testing for Hydraulic Conductivity, Port Hope and Port Granby Projects" dated March 04, 2013. The study did not include determination of the mineralogy and activity of the clay and assessment of its compatibility with the leachate anticipated at the containment mound. When the selected Contractor performs the compatibility test on the soil from the sources identified in the report and the test fails to meet the specification requirements, would the Contractor be eligible for a change order to the scope of work?

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(d) Three pits were referred to as part of the report: Westone, Mcgee and Young. Of the three pits that were provided, only one of them is willing to provide pricing for Clay. Does the designer have additional sources and volumes that satisfy the proposed design?

(e) Are the materials from any of the three sites investigated (Westone, Mcgee and Young) considered acceptable for the proposed design? If so, which ones?

(f) The clay sources provide meet the hydraulic conductivity requirements; however, the sources do not meet all of the soil properties requirements specified in 2.1.2 of spec 31 32 40. Since a source of material meeting all specifications requirements has not been identified, does the hydraulic conductivity requirements supersede the soil properties requirements or do both requirements need to be met?

A342. a) This information is not available at this time

b) Size distribution and plasticity are available in the tables of the report provided. No further documentation is available.

c) , d), e), and f) The Golder report is provided as a reference document only. The contractor is to source, test and provide material compliant with the specified criteria.

Q343. The following questions relate to Appendix R3 and Appendix U for Trench 24

(a) The information provided describes 6M liters of ammonium nitrate. Please provide the contractors with the current disposition of this material?

(b) Is it known how this volume of material was offloaded into Trench 24?

(c) Based on the surface area of this Trench (~50m²) illustrated on numerous drawings and in order to accommodate the capacity of this material, please provide the dimension of any underground containment systems.

(d) Is the 6M liters of ammonium nitrate schedule to be mixed / offloaded into the proposed LTWMF?

A343. This information is not available at this time. Bidders are advised to bid in accordance with the information provided in the drawings, specifications and addendums issued during the tendering period.

Q344. With respect to Spec 01 35 29 section 1.7.6 and Table 3.1-1 found in Appendix R-3 and Appendix U – Trench #06, the disposal pricing varies drastically depending upon 12" inch diameter cylinders containing HF, SO₂ and CL₂. Please provide the actual counts to assume for the six cylinders identified

A344. This information is not available at this time. Bidders are asked to quote based on the information provided in the drawings, specifications and addendums issued during the tendering period.

Q345. Appendix R-9 references Intera Engineering Ltd 2003 Groundwater Flow and Transport Modelling of the Port Granby WMF 2003 and Intera Engineering Ltd 2007 Additional Groundwater Flow and Transport Modelling of the Port Granby WMF. Please provide these reports.

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A345. The recommendations and conclusions provided in the reports have been rendered invalid as the remediation requirements and strategy have evolved since publication of those reports. As such the reports will not be provided.

Q346. Could you please provide Auto-Cad Drawings or Civil 3-D for the project?

If Auto-CAD or Civil 3-D is not available to us, can you please provide Existing Grading Plan for the area of the new Containment Mounds to ensure a proper quantity take off of the area and accurate and competitive pricing.

A346. As per response provided to Question 38, the AutoCAD drawings will not be provided. The Containment Mound "CM" series of drawings provide filling and grading plans. Bidders are asked to quote in accordance with information provided in the tender documents and the Table of Pricing.

Q347. Please confirm the proper panel tag for P- P-01310 & P-01320 in the PGWMF (Drawing PGWMF-E- 21 has L-01310 but Drawing PGWMF-E- 72 has L-01300)

A347. The tag for the control panel on drawing PGWMF-E- 21 will be modified to read LCP-01300 through Addendum 6.

Q348. Please clarify if 1 duplex or 2 simplex panels are required for pumps P-01310 & P-01320 in Section 43 21 39. Drawing PGWMF-E- 21 – shows 1 duplex panel (LCP-01310) for pumps P-01310 & P-01320, but drawing PGWMF-E- 72 shows 2 separate panels for LCP-1300.

A348. One duplex panel (LCP-01300) is correct. Drawing PGWMF-E-72 indicates two controls but one control panel (LCP-01300) as well. Schematic will be modified to clearly indicate this through Addendum 6.