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Bid Receiving Public Works and Government  
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800 Burrard Street, Room 219  
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Vancouver  
British Columbia  
V6Z 0B9  
Bid Fax: (604) 775-9381

**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**

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

**Issuing Office - Bureau de distribution**  
Public Works and Government Services Canada - Pacific  
Region  
800 Burrard Street, Room 219  
800, rue Burrard, pièce 219  
Vancouver  
British C  
V6Z 0B9

<b>Title - Sujet</b> 2020 PEC Soil Disposal Program	
<b>Solicitation No. - N° de l'invitation</b> EZ897-202673/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b>	<b>Date</b> 2020-02-12
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWY-036-8739	
<b>File No. - N° de dossier</b> PWY-9-42215 (036)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-03-02</b>	<b>Time Zone Fuseau horaire Pacific Standard Time PST</b>
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Martin (PWY), Delia	<b>Buyer Id - Id de l'acheteur</b> pwy036
<b>Telephone No. - N° de téléphone</b> (778) 707-2139 ( )	<b>FAX No. - N° de FAX</b> (604) 775-6633
<b>Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:</b> ECCC - Pacific Environment Centre Site - West Vancouver, BC	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur</b>	
<b>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)</b>	
<b>Signature</b>	<b>Date</b>

## **Les documents français seront disponibles sur demande.**

This Amendment #001 is raised to:

- 1: Update SI03 – Site Visit
- 2: Issue Addendum #01

- 1: SI03 – Site Visit

**DELETE: SI03 SITE VISIT** - There is no site visit scheduled for this solicitation.

**ADD: SI03 SITE VISIT:**

An optional site visit is scheduled for February 19, 2020 from 10:00 am to 11:00 am local time. Bidders wishing to visit the site are to notify the Contracting Officer by email at [delia.martin@pwgsc.gc.ca](mailto:delia.martin@pwgsc.gc.ca) no later than 12:00 pm local time on February 18, 2020.

The site is currently an active and secure work site. Interested bidders are to meet at the Hemmera site office shown on the Drawings. There is no civic street address for the site.

In order to be guaranteed access to the site all persons must have the proper personal protection equipment (footwear, vests and hard hats). Contractor's personnel/individuals who do not have the proper safety attire will be denied access to the site.

No questions or answers will be permitted during the site visit. Questions can be submitted to the Contracting Authority, Delia Martin, by email at [delia.martin@pwgsc.gc.ca](mailto:delia.martin@pwgsc.gc.ca).

- 2: Issue Addendum No. 01.

Please see Addendum No. 1 attached.

The addendum will form part of the contract documents.

**All other terms and conditions remain unchanged.**

Facility Name: Pacific Environmental Center (PEC) Site  
Project Name: 2020 PEC Soil Disposal Program  
Project Number: EZ899-202673/A

## Addendum #01

Date: 2020-02-12

The following changes in the tender documents are effective immediately. This Addendum will form part of the contract documents.

**Question #1:** Can you please provide analytical data for the soil?

**Answer #1:** Attached is a representative data set of the material to be disposed under the contractor, however; is not a complete set as there is a current contract underway which is excavating and stockpiling material. The material to be transported and disposed under the contract will be classified by Canada and will meet the requirement for CL+ and amended HW metals quality soils as identified in the tender documents.

**Question #2:** Drawing 102655-57 Figure 3, Is Contractor allow to access waterfront to receive backfill materials imported by barge?

**Answer #2:** No.

**Question #3:** Special Instructions to Bidders, Section SI03 SITE VISIT, states that there is no site visit. Tervita would like to request a site visit for this opportunity, can you please advise if this is possible?

**Answer #3:** An optional site visit has now been scheduled for February 19, 2020 from 10:00 am to 11:00 am local time. Bidders wishing to visit the site are to notify the Contracting Officer by email at [delia.martin@pwgsc.gc.ca](mailto:delia.martin@pwgsc.gc.ca) no later than 12:00 pm local time on February 18, 2020.

The site is currently an active and secure work site. Interested bidders are to meet at the Hemmera site office shown on the Drawings. There is no civic street address for the site.

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----End of Addendum----

		Field II																		
		Location II																		
		Sample Data																		
BC CSR CL		7.34	7.26	6.25	5.71	5.19	4.79	5.09	7.35	7.92	7.2	6.2	6.01	5.18	4.75	5.08	7.43	6.24	6.25	
		4.46	350	445	428	458	432	439	508	418	367	429	471	505	443	440	458	517	555	
Inorganics																				
pH (Lab)	pH Units																			
Phosphorus	mg/kg																			
Metals																				
Aluminum	mg/kg	10,200	10,500	10,300	10,200	9,120	10,100	9,620	11,700	11,700	9,380	11,600	12,000	8,810	9,140	11,500	10,700	10,800	12,000	12,000
Antimony	mg/kg	40	2.42	14.1	17.3	14.3	19.7	22.9	6.6	1.18	2.52	5.47	17.4	19.4	17.2	12.6	4.43	8.22	6.08	4.83
Arsenic	mg/kg	10	18.2	118	149	135	180	192	45.1	5.63	19.2	36.2	131	169	276	118	27.1	84.9	72.4	48.7
Barium	mg/kg	1500	34.4	50	38.9	37.4	39.6	38.5	40.9	43.3	33.6	40.2	53.8	45.1	40.1	32.9	41	38.1	41.6	39.1
Beryllium	mg/kg	-	<0.2	<0.2	<2	<2	<2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<2	<0.2	<0.2	<0.2	<0.2	<0.2
Bismuth	mg/kg	-	2.84	1.7	18.5	18.7	14.6	18.4	5.89	0.37	1.65	3.78	17.5	19.4	17.1	12.1	2.78	9.43	5.62	3.73
Boron	mg/kg	50,000	1.9	1.4	<10	<10	<10	<10	2.3	2.8	1.3	1.6	1.4	<10	<10	1.2	1.9	2.4	2.6	1.6
Cadmium	mg/kg	2.15	2.23	7.57	11.4	7.98	8.87	14	4.97	1.81	1.38	1.88	5.63	5.66	6.47	7.45	1.86	4.07	1.56	1.71
Calcium	mg/kg	5860	4530	4930	5080	5320	4870	4440	8170	10,000	4710	4590	5230	4550	4020	5300	6950	5890	5870	6230
Chromium	mg/kg	60	17.1	13.8	17	15	18	17	22.4	16.1	16.4	18.3	21.7	17	25	19.5	18.9	19.2	18.8	23
Cobalt	mg/kg	25	6.96	11	13.8	10.9	14.2	14.4	9.06	8.77	6.02	6.46	13.6	10.4	11.3	10.8	6.58	8.58	6.86	7.26
Copper	mg/kg	5340	11,400	20,400	29,900	22,100	31,300	33,500	12,100	17,400	6,430	6,640	22,900	23,200	29,300	21,400	7,020	11,500	6,610	8,270
Iron	mg/kg	150,000	26,400	20,900	41,700	44,500	56,300	51,400	36,800	21,100	23,500	28,300	48,700	52,100	59,000	40,200	27,700	36,300	23,400	32,200
Lead	mg/kg	450	558	5240	10,100	8,850	8,850	8,120	1,590	257	957	1,690	9170	10,800	6,070	6,130	1,650	3,480	2,520	1,660
Lithium	mg/kg	-	10.3	11.8	8.5	<50	<50	<50	12	11.7	10.2	12.4	10.8	<50	<50	10.8	12.2	13.3	15.4	13.5
Magnesium	mg/kg	3770	3620	3650	3550	3190	3260	3420	4120	4120	3680	4100	4330	3400	3400	3370	3470	3920	3840	4200
Manganese	mg/kg	2000	198	216	181	160	169	178	218	247	190	211	230	163	147	176	218	212	236	231
Mercury	mg/kg	75	0.402	0.243	0.481	1.05	1.23	1.22	0.958	0.058	0.131	0.316	0.643	0.86	1.67	0.482	0.205	0.363	0.317	0.205
Molybdenum	mg/kg	150	39.3	24.8	134	159	166	202	204	71.9	6.02	22.7	45.7	146	195	231	35.4	63.2	43.8	33.3
Nickel	mg/kg	26	56.8	49	42.1	50.5	44	70.4	33.9	63.6	38	27.1	44	44	31.2	32.4	88.4	22.2	35.6	26.1
Potassium	mg/kg	-	1010	1040	1050	1160	1140	1140	1160	970	976	1050	1350	1300	1240	1010	1020	1030	1230	1060
Selenium	mg/kg	1	3.8	2.14	11.5	13	20.7	19.1	7.85	0.52	2.18	4.25	12.5	18.4	29.8	10.9	3.2	6.9	3.81	3.84
Silver	mg/kg	40	3.35	1.99	12.2	15.8	13.1	18.1	17.7	6.59	2.11	4.38	13.9	17.3	20.2	10.2	3.41	7.23	5.04	3.76
Sodium Ion	mg/kg	-	470	474	449	<1000	<1000	<1000	<1000	531	516	409	489	611	<1000	511	482	493	620	589
Strontium	mg/kg	150,000	38.9	35	37.7	41.6	38.6	34.7	53.2	61.8	30.9	36.2	46.6	43.4	41.1	41	43.8	39.5	47.3	43
Thallium	mg/kg	25	0.101	0.079	0.187	<0.5	<0.5	<0.5	0.16	0.063	0.066	0.1	0.195	<0.5	<0.5	0.184	0.095	0.149	0.134	0.108
Tin	mg/kg	300	0.86	0.45	1.68	2.4	2.2	3.8	1.37	0.63	0.53	0.87	2.09	3	3.6	1.8	0.92	1.58	1.32	1.03
Titanium	mg/kg	567	647	653	590	590	593	578	631	693	531	626	732	658	575	621	618	605	667	727
Tungsten	mg/kg	200	<0.5	0.76	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	0.75	<5	<5	0.72	<0.5	0.6	0.94	<0.5
Uranium	mg/kg	300	0.86	0.864	0.771	0.87	0.75	0.91	1.23	1.25	0.932	0.843	0.814	0.79	0.63	0.905	0.96	1.54	1.95	1.22
Vanadium	mg/kg	300	60.3	71.4	62	57	61	55	74.8	62.8	65.1	61.1	72	62	58	72.4	67.7	77.2	69.6	84.4
Zinc	mg/kg	572	774	1790	3000	2120	2350	3400	1480	435	429	574	1500	1560	1780	1820	490	1110	425	494
Zirconium	mg/kg	-	0.7	1.29	<5	<5	<5	<5	0.69	0.81	0.83	0.81	1.08	<5	<5	0.74	0.82	0.84	0.59	0.63



		Field ID																					
		Location ID																					
		Sample Date																					
BC CSR CL																							
Inorganics	pH Units	5.81	5.01	4.61	6.42	4.44	5.9	5.09	5.22	7.03	4.00	4.24	7.2	7.42	7.45	7.49	7.62	6.06	7.31	7.32	7.45	7.41	
pH (Lab)	mg/kg	386	446	444	505	449	429	409	447	403	400	424	424	377	422	360	398	457	463	426	417	462	501
Metals																							
Aluminum	mg/kg	10,100	8730	10,400	9810	11,800	12,900	10,100	10,100	10,800	10,500	10,700	11,900	10,400	10,400	10,500	10,500	9970	11,200	11,700	12,100	12,000	11,600
Antimony	mg/kg	40	17.4	13.2	13.7	6.38	6.24	8.22	15.5	3.08	2.6	6.97	14.5	2.49	1.94	1.84	1.94	35.5	2.4	1.01	0.87	3.33	1.59
Arsenic	mg/kg	170	168	118	141	51.8	48.4	71.6	124	22	22.2	6.84	14.8	19.1	15.7	15.7	89.8	14	17.4	12.3	20.3	16.5	14
Barium	mg/kg	1500	31.6	39.2	39.3	26.9	38.5	39.5	47.2	35.8	30.4	32.2	31.5	33.8	47.8	48.5	47.8	48.5	35.3	35.9	35.4	38.4	35.4
Beryllium	mg/kg	-	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Bismuth	mg/kg	-	17.3	16.8	10.3	12.3	3.54	5.77	10.3	1.55	1.41	0.45	0.93	1.54	1.14	1.14	12.6	1.43	0.52	0.4	1.78	1.01	
Boron	mg/kg	<10	<10	1.2	1.4	1.1	1.4	1.2	1.3	1.5	2.3	1.7	2.9	1.1	1.1	1.1	1	1.3	1.9	1.5	1.5	1.8	1.5
Cadmium	mg/kg	14.8	10.9	6.09	3.38	1.3	1.92	0.983	1.72	1.43	2.87	1.68	2.34	1.25	0.74	0.74	30.2	3.33	1.6	1.2	1.67	2.09	
Calcium	mg/kg	4940	4330	4560	5450	4620	4730	4920	5070	4860	5830	5470	6320	7360	5490	5110	5070	5580	5650	5110	5070	5580	5640
Chromium	mg/kg	15	16	20.3	19.8	34.3	18.5	19.2	23	21.5	17.9	18.1	22.3	16.5	12.2	19.7	15.6	20.5	9.43	19.2	19.8	18.4	18.7
Cobalt	mg/kg	14.5	10.9	8.36	8.29	7.27	8.51	6.88	7.38	9.73	7.75	7.51	7.75	7.31	6.12	6.76	8.88	7.48	8.84	9.31	5.92	7.06	8.84
Copper	mg/kg	29,700	25,000	16,900	15,800	8650	18,700	7330	12,800	9750	11,700	13,400	8840	6650	6650	3520	5810	6240	6300	5740	6880	6240	6710
Iron	mg/kg	43,200	47,900	49,300	46,800	45,100	31,000	38,900	51,100	26,700	22,500	21,800	25,100	22,100	19,200	38,100	19,200	38,100	26,100	21,900	20,800	25,300	24,400
Lead	mg/kg	10,500	6660	3800	4080	1220	1110	2630	4770	578	1200	122	543	803	545	4950	545	4950	665	440	396	2020	462
Lithium	mg/kg	<50	<50	11.6	8.6	10.1	14.9	11.5	9.5	15.7	12.7	13.4	15.2	11.6	10	9.2	11.6	10	14.7	15.4	12.5	13.6	16.4
Magnesium	mg/kg	3070	2990	3540	3680	3400	4320	3720	3640	3920	3700	4110	4120	3940	3990	3650	3990	3650	4220	4350	4180	4030	4400
Manganese	mg/kg	154	149	174	163	182	207	190	182	224	191	215	226	218	222	202	222	202	260	256	232	227	250
Mercury	mg/kg	75	0.73	1.38	1.39	1.21	0.256	0.385	0.712	0.123	0.103	<0.05	0.09	0.093	0.105	1.03	0.093	0.105	0.287	<0.05	0.055	0.145	0.135
Molybdenum	mg/kg	169	185	159	180	56.5	51.5	91.1	163	26.5	20.2	7.49	13.9	18.4	11	21.4	18.1	73.8	23.4	9.04	6.73	27.2	16
Nickel	mg/kg	97	56.1	23	25.7	10.6	31.4	26.3	18.1	33.2	53.3	46	44.5	18.4	11	21.4	32.1	32.6	33.8	30.3	29.4	36.4	23.4
Potassium	mg/kg	1000	1120	1250	1190	845	1240	1210	1290	1080	917	986	986	960	896	1180	1060	1070	1110	1080	1110	1080	1130
Selenium	mg/kg	1	15.7	16.8	12.2	13.5	4.56	6.54	12.2	2.45	2.18	0.68	1.43	1.84	1.72	7.46	1.72	7.46	1.88	0.73	0.61	2.02	3.12
Silver	mg/kg	40	16	15.9	11.2	12.7	4.51	4.07	6.89	12.7	2.12	2.06	1.52	1.78	1.53	1.72	1.53	1.72	1.9	0.758	2.89	2.52	1.92
Sodium ion	mg/kg	<1000	<1000	551	544	509	547	565	610	446	476	490	528	491	456	500	462	500	462	471	428	500	457
Strontium	mg/kg	33.4	35.6	40	43.1	33.1	38.6	39.5	44.6	34.2	39.7	42.1	40.6	51.4	36.1	40.7	36.1	40.7	42.6	40.1	34.2	39	37.8
Thallium	mg/kg	<0.5	<0.5	0.21	0.21	0.085	0.083	0.119	0.189	0.074	0.074	0.059	0.065	0.059	0.065	0.06	0.059	0.06	0.074	0.055	<0.05	0.075	0.065
Tin	mg/kg	2.7	2.7	1.93	2.37	0.98	1.54	1.37	2.32	0.61	0.7	0.27	0.4	0.5	0.45	0.34	0.5	0.45	0.54	0.34	0.34	0.44	0.85
Titanium	mg/kg	513	574	679	628	660	769	709	720	660	565	635	625	640	510	637	612	637	612	658	633	606	635
Tungsten	mg/kg	<5	<5	0.71	0.76	<0.5	0.5	0.71	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.82	<0.5	<0.5	<0.5	<0.5
Uranium	mg/kg	1	0.7	0.739	0.656	0.466	1.15	0.568	0.513	0.899	1.11	0.977	1.46	0.533	0.445	0.582	0.445	0.582	0.968	0.872	0.817	0.763	1.01
Vanadium	mg/kg	53	58	74.3	60.9	140	79.3	75.1	86.9	82.6	68.9	73.5	82.5	67.7	46.4	67.7	46.4	67.7	73.5	73.5	65.8	70.3	79.4
Zinc	mg/kg	3190	2690	1790	903	339	800	262	438	515	879	733	675	343	195	5470	464	5470	824	390	396	383	482
Zirconium	mg/kg	<5	<5	0.74	0.86	1.06	0.79	0.99	1.06	0.65	0.52	0.73	0.62	0.92	0.84	1.08	0.84	1.08	0.72	0.63	0.69	0.59	0.63

