

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Bid Receiving - PWGSC / Réception des soumissions  
- TPSGC  
100-167 Lombard Avenue  
Winnipeg  
Manitoba  
R3B 0T6  
Bid Fax: (204) 983-0338

**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/Travaux publics et Services gouvernementaux  
Canada  
Suite 1650  
635 - 8th Ave. S.W.  
Bureau 1650  
635 - 8e avenue, SO  
Calgary  
Calgary  
Alberta  
T2P 3M3

<b>Title - Sujet</b> Tundra Mine Care and Maintenance	
<b>Solicitation No. - N° de l'invitation</b> EW699-151890/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> PWGSC-EW699-151890	<b>Date</b> 2015-03-11
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$GMP-010-6322	
<b>File No. - N° de dossier</b> GMP-4-37239 (010)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2015-03-26</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> Kozak, Tammy	<b>Buyer Id - Id de l'acheteur</b> gmp010
<b>Telephone No. - N° de téléphone</b> (204) 807-0189 ( )	<b>FAX No. - N° de FAX</b> (204) 983-7796
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

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

Solicitation No. - N° de l'invitation

EW699-151890/A

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

PWGSC-EW699-151890

Amd. No. - N° de la modif.

002

File No. - N° du dossier

GMP-4-37239

Buyer ID - Id de l'acheteur

gmp010

CCC No./N° CCC - FMS No/ N° VME

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**This Amendment #002 is an administrative amendment to correct the error in attaching the Appendices in Amendment #001 for original solicitation EW699-151890/A as follows:**

1. See Attached documents for:

Appendix 5 Tundra Water Treatment Reports

Appendix 6 Drawings

**All other terms and conditions remain the same.**

**This Amendment #002 is raised against Solicitation #EW699-151890/A to:**

1. Replace Appendix 3 – Furnished Equipment
2. Replace Appendix 4 – Restricted Equipment
3. Insert Appendix 7 – Finning 2014 Equipment Status Report
4. Post Bidders Teleconference questions and answers and list of attendees
5. Add Supplemental Clause – Limitation of Submissions
6. Remove Provisional Cost Sum for Mobilization of Construction Equipment
7. Amend reference to Water Treatment Plant Item
8. Include price variance percentages.
9. Insert Annex 8 – Photos

1. Refer to Appendix 3 – Furnished Equipment and:

DELETE: in its entirety

INSERT: Appendix 3 – Furnished Equipment rev1 – See attached document.

2. Refer to Appendix 4 - Restricted Equipment and:

DELETE: in its entirety

INSERT: Appendix 4 – Restricted Equipment rev1 – See attached document.

3. Refer to Appendix 7 - Finning 2014 Equipment Status Report and:

INSERT: attached Appendix 7

4. See attached Bidders Conference.

5. Refer to Supplementary Conditions (SC) and:

INSERT: SC04. Limitation of Submissions

1) A Bidder may not submit more than one bid. This limitation also applies to the persons or entities in the case of a joint venture. If more than one bid is received from a Bidder (or, in the case of a joint venture, from the persons or entities), all such bids shall be rejected and no further consideration shall be given.

2) A joint venture is defined as an association of two or more parties which combine their money, property, knowledge, skills, time or other resources in a joint business enterprise agreeing to share the profits and the losses and each having some degree of control over the enterprise.

3) An arrangement whereby Canada contracts directly with a prime consultant who may retain sub-consultants or specialist consultants to perform portions of the services is not a joint venture arrangement. A sub-consultant or specialist consultant may, therefore, be proposed as part of the Consultant Team by more than one Bidder. The Bidder warrants that it has written permission from such sub-consultant or specialist consultant to propose their services in relation to the services to be performed.

4) Notwithstanding paragraph 3. above, in order to avoid any conflict in interest, or any perception of conflict of interest, a Bidder shall not include in its submission another Bidder as a member of its consultant team, as a sub-consultant or specialist consultant.

5) Any joint venture entered into for the provision of professional services or other services must be in full compliance with the requirements of any provincial or territorial law pertaining thereto in the Province or Territory in which the project is located.

6. a. Refer to [Unit Price Table, line item 19, Mobilization-Construction Equipment and:](#)

DELETE: in its entirety

b. Refer to [Annex A - Specifications, Section 01 53 Section 01 53 00 1.4.1 and:](#)

DELETE: in its entirety

INSERT: 1.4.1 Include all costs for the mobilization of all equipment and materials, including the submission of a Mobilization Plan, in the lump sum price for Mobilization, Item 01 53 00-1, as indicated in the Basis of Payment Schedule. The lump sum price for Mobilization is to include all labour, equipment, materials, meals, accommodation, flights and any other costs necessary to undertake mobilization work required.

7. a. Refer to [Annex A - Specifications, Section 44 41 13, 1.6.1. and:](#)

DELETE: in its entirety

INSERT: 1.6.1 Include all direct costs for the purchase of the Water Treatment Plant components in the provisional cost for Provision of the Water Treatment Plant, Item 44 41 13-1, as indicated in the Basis of Payment Schedule. Costs associated with the transport of these components to site should be included under Mobilization, Item 01 53 00-1, as indicated in the Basis of Payment Schedule.

b. Refer to [Annex A - Specifications, Section 31 22 15, 1.5.1 and:](#)

DELETE: in its entirety

INSERT: 1.5.1 Include all direct costs for the construction, maintenance and decommissioning of the Water Treatment Plant pad, upgrading and maintenance of site accesses including site roads and airstrip and the construction of new site accesses, as required, to support Contractor's work, in the lump sum price under Site Road Upgrade and Maintenance and Water Treatment Plant Pad Construction, Item 31 22 15-1 in the Basis of Payment Schedule.

8. a. Refer to [Annex H – Combined Price Form, at LUMP SUM and:](#)

INSERT: (b) Price Variance Percentages: The LUMP SUM AMOUNT indicated in Line 1 and the LUMP SUM AMOUNT indicated in Line 2 may not exceed a price variance of a 10% increase or decrease. Failure to adhere may result in rejection of bid.

b. Refer to [Annex H – Combined Price Form, at UNIT PRICE TABLE and:](#)

INSERT: 4. Price Variance Percentages: The Sub-Total indicated in Line 4 and the Sub-Total indicated in Line 5 may not exceed a price variance of a 10% increase or decrease. Failure to adhere may result in rejection of bid. Line 16 will be removed from this calculation.

- c. Refer to Annex I – LUMP SUM BREAKDOWN, at SUB-TOTAL and:
  - INSERT: 5. Price Variance Percentages: The amount indicated in Line 1 and the amount indicated in Line 2 may not exceed a price variance of a 10% increase or decrease. Failure to adhere may result in rejection of bid. Line 21 and Line 22 will be removed from this calculation.
  
- 9. Refer to Appendix 8 - Photos and:
  - INSERT: attached Appendix 8

**ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.**



Public Works and  
Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada

**Bidders Conference (EW699-151890)**  
**Tundra Care and Maintenance**  
**March 10, 2015**  
**10:30 – 11:30 CST**

**ATTENDEES:**

Tammy Kozak	PWGSC Contracting Officer
Giselle Cotta	PWGSC Project Manager
Murray Somers	AANDC
Barry Henkel	RTL Construction
Tim Beckenham	WESA
Wayne Ingham	WESA
Kenny Puptash	Nahanni Construction
James Carss	Parsons
Greg Burchert	Parsons
Jared Buchko	EES
Jack Rowe	Rowes Construction
Florian Mandfeld	Rowes Construction
Steven Kromhout	Milestone Environmental Contracting
Jeffrey Burke	Milestone Environmental Contracting
Bob Johnson	Delta Engineering Ltd.
Thomas Kivett	Tetra Tech EBA Inc.
Greg Haist	Aboriginal Engineering
Rob Cook	Nuna Logistics
Oliver	Nuna Logistics
Alix Rive	Biogenie
Eric Thomassin	Biogenie
Antoine Vallieres	Biogenie
Mike	Golder
Bryer Manwell	Western Water Associates
Rose	Western Water Associates
Kyle Krushelniski	March Consulting Associates
Kevin Ramsay	Denison Enviro Services
Matas Remeikis	Denison Enviro Services



### **Bidder Questions:**

Q1. Line Item #7 - Payment for transferring PWGSC DR Samples from site to their designated lab in Edmonton is made up of a unit price per kilogram. To determine an accurate number of samples leaving site what is the anticipated weight per samples in kilogram.

A1. The DR sample size for this project is estimated at 2.5 kg each, which includes the water sample itself and representative weight of ice and cooler.

Q2. What volumes of diesel fuel and propane is currently on site and are there any plans to mobilize any additional fuel to site via the 2015 winter road. Will all the fuel currently at site be available for use by the contractor?

A2. There is approximately 180,000L of diesel fuel on site that will be made available to the Contractor to support the Care and Maintenance activities. For the purpose of the bids, assume that there is no propane available at site. There are no plans to mobilize any additional fuel to site via the 2015 winter road. See revised Appendix 3.

Q3. The scope of work calls for the contractor to mobilize heavy equipment and a water treatment plant to site after the award has been granted and the pre-mobilization information has been accepted and approved by PWGSC. Please confirm if your anticipated date to award for this project would fall within the 2015 winter road season.

A3. The anticipated award date will be after the 2015 winter road season.

Q4. In the scope of work the contractor is directed to construct a level crushed gravel pad to place the water treatment plant on. Is there crushed gravel available at the site to complete this work and if so is it available to the contractor for use on this project.

A4. Section 44 41 13 3.1.1 identifies the provision of a compacted crushed rock pad to support the water treatment plant and associated equipment and facilities. This pad must be constructed to support the operation of the Water Treatment Plant (WTP) facilities. The pad could be constructed from native sandy gravel material from the area surrounding the WTP site and capped with a 100 – 150 mm depth of Type D material, which is stockpiled in the West Lower Pond Quarry.

Q5. Is demobilization specific to the contractor's facilities, plant and equipment along with the non-hazardous waste & hazardous waste generated from this contract only, or are we to include demobilization of all materials and equipment at the site and detailed in Appendix 3 and 4. If demobilization is to include additional materials and waste other than is documented in the specification will PWGSC produce a list of items the contractor is required to demobilize.

A5. Demobilization is specific to the Contractor's facilities, plant and equipment along with the non-hazardous waste and hazardous waste generated from this contract only.

Q6. We request a one month extension of the due date to April 16, 2015 so that there will be adequate time to prepare a quality and competitive proposal.

A6. The closing date will be extended to March 26<sup>th</sup>.



Q7. Are subcontractors required to be exclusive to a single prime contractor bid?

A7. No. Refer to Amendment item #5.

Q8. Are key team members allowed to appear on more than one prime contractor bid?

A8. Yes. Refer to Amendment item #5.

Q9. Is there a minimum presence required onsite through entire 90 day period on 2015?

A9. No. There needs to be a presence at site during freshet and while water treatment/discharge activities are being undertaken.

Q10. Is there potential to use equipment that may remain onsite from the previous prime contractor, who will have ownership and control over this equipment?

A10. There is additional equipment at site that will be made available for use to the Contractor. See revised Appendix 3.

Q11. Anticipated date of award?

A11. Solicitation closes March 26 and award is anticipated to be within 3 weeks of solicitation closing – April 16. A letter of award will be issued requiring Contract Security and the Insurance Certificate. Upon receipt of the contract security and insurance the Contract Award will be issued and the contractor will be allowed onsite.

Q12. What are the last documented conditions of air strip under frozen and thawed conditions?

A12. A formal assessment of the airstrip condition has not been undertaken. The airstrip is an unlicensed, 1,500m gravel airstrip. It has been used regularly over the last 4 years by the following planes: 300 series Twin Otter, Cessna Caravan and Grand Caravan, Dash 7 Combi and L3826 Hercules. The use and condition of the airstrip should be assessed by the proposed air charter company prior to use.

Q13. Does the existing sewage treatment lagoon meet the requirements for treatment under water license and land use permit?

A13. Yes

Q14. Re: Appendix 3 – Furnished Equipment: Is the existing camp assembled and functional? Provide any deficient items that need to be addressed in the camp and systems supporting the camp. Can you provide any information as to the condition of the all equipment? Are all of the related fuel containers (diesel tank and propane tanks) full?

A14. The camp was functional when it was winterized in November 2014. There are no known deficient items to be addressed with the camp. Available condition reports for some of the Furnished Equipment are provided in a new Appendix 7. The fuel tanks remaining at the site are not full. As per Q2, there is diesel available for use by the Contractor to support care and Maintenance activities.



Q15. Re: Appendix 3 – Furnished Equipment: The RFP states in 1.10 that “Furnished equipment should be inspected and maintained on a regular basis and returned to the Crown at the end of the contract in as good or better condition than at the start of the contract.” We are assuming that it is to be left on-site at the end of the contract – can you confirm?

A15. Yes, this equipment is to remain at site at the end of the contract.

Q16. Please confirm all bid financial security requirements – is the following all that is required for the proposal? GI08 (2014-06-26) Bid Security Requirements: The Bidder shall submit bid security with the bid in the form of a bid bond or a security deposit in an amount that is equal to not less than 10 percent of the bid amount. Applicable Taxes shall not be included when calculating the amount of any bid security that may be required. The maximum amount of bid security required with any bid is \$2,000,000.

A16. Yes, proposals require bid security at 10% of the bid amount bid prior to closing. Refer to GI08 for additional details.

Q17. Please confirm what, if any contract security is required for this project?

A17. The Contractor shall deliver to Canada either (a) or (b).

a. A performance bond and a labour and material payment bond each in an amount that is equal to not less than 50 percent of the Contract Amount (excluding applicable tax(es)).

b. A security deposit or an irrevocable standby letter of credit in an amount that is equal to not less than 20 percent of the Contract Amount (excluding applicable tax(es)).

Refer to GC 9 – Contract Security for additional information. <https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R/R2890D/8>

Q18. Please confirm that the new Care/Maintenance contractor is NOT responsible for any inherited site conditions that may result in spills of fuel, contaminated water, sediment or dust to the environment?

A18. The new Care and Maintenance contractor is not responsible for historic fuel spills, contaminated water, sediment or dust to the environment at the site. But they will be responsible for any spills, contaminated water, sediment or dust to the environment caused by their activities at the site.

Q19. Regarding Key Individual resources, if we identify unique resources for the primary and backup roles, is it possible for one individual to perform more than one project role?

A19. Yes this may be acceptable as long as it does not compromise the individual’s ability to perform each of the project roles. This will be assessed in the technical evaluation.

Q20. Can you confirm that past experience of sub-contractors will be acceptable as Client References for 2.2?

A20. The client reference must be the owner’s representative. If this does not address the question please rephrase question.



Q21. Can you confirm that past experience of key individuals even if they gained that experience working for another company will be acceptable as Client References for 2.2?

A21. Yes

Q22. Will there be other 3rd party assets on site? Are any remaining 3rd party assets properly secured?

A22. The assets left on site are identified in either Appendix 3 – Furnished Equipment or Appendix 4 – Restricted Equipment. Items included in Appendix 4 will be clearly identified at site.

Q23. What is the definition of aboriginal for this contract?

A23. Aboriginal refers to any First Nation, Inuit or Metis person residing within the area of the contract. For the Tundra Care and Maintenance tender, the Area of the Contract is the Monfwi Gogha De Niitlee identified in the Tlicho Land Claims and Self-Government Agreement and proximate to Yellowknife and the Akaitcho Dene First Nation Communities of Dettah and N'Dilo.

Q24. In Section 31 22 15, what is required for the decommissioning of the air strip and site access road, could you please elaborate on this?

A24. Refer to Amendment item #8.

Q25. In reference to the Geotechnical Lab, I am wondering about the material that is stock piled as it seems we don't need it.

A25. The lab is required in case more material is needed than available in the stockpile or if there is a need to amend the scope based on unforeseen site conditions.

Q26. In the Water License it says that the arsenic levels should be 0.5mg/liter and it also says that the arsenic levels should be 0.2mg/liter in the RFP. Is there a reason that there is a more stringent requirement in the RFP?

A26. The RFP is more stringent because the treated water is discharging directly into the environment and we wanted to have a safety factor.

Q27. In the Unit Price Table, the quantity of water to be treated and discharged is 50,000 cubic metres, is this the maximum water to be treated or a guess for current retention?

A27. All of the quantities are estimates.

Q28. What is the determining factor for the expected amount of water?

A28. It will be depended on what happens with freshet.

Q29. What is the Expected camp size? How many can the camp hold?

A29. The Dorm A camp can hold 22 people, as referenced in Section 01 54 00 1.1.6.4



Q30. Can you give me a quick overview of the breakdown of the summer schedule?

A30. Based on historic activities on the site, freshet typically hits around Late May - Early June, so it will be important to have someone on site at that point. The ice does not come off the lake until late June, so discharge is normally the first – second week of July. It is reasonable to assume that field work can continue to the end of September with a possibility of going later.

Q31. Section 44 41 13 1.2.5, Weekly Plant Operation Reports require time weighted daily average discharge concentrations of arsenic. Does this need to be done through multiple sampling events or will a composite sample be acceptable?

A31. The time weighted daily average discharge concentration of arsenic must be determined through multiple sampling events, not through the use of a composite sample.

Q32. Reference line item #16 in the unit price table – can proponents assume that the costs associated with the purchase, and transport to site of all required water treatment equipment is to be billed under this line item? Is the option year covered with this Provisional Cost Sum?

A32. No. See Amendment item #7.

Q33. Within the Management and Organization Proposal we are requested to provide 3 project references. In Section 2.2 of the Evaluation and Rating Grid (page 27 of 172) it indicates “The project must have been undertaken within the last ten (10) years, by the company or key sub-contractors.” What is the requirement for the sub-contractor to be considered key? Do we have to form a Joint Venture?

A33. Remove the word “key” when referring to sub-contractors.

Q34. Are there any page limits on the project descriptions/references requested in the Management and Organization Proposal?

A34. The project references should not exceed 2 pages per project reference.

Q35. Can you please make pictures, specs, and details of the existing on site camp facilities available? Include the potable water treatment plant, sewage treatment plant, communication systems, etc.

A35. The available specifications of the camp facilities are provided in Appendix 3. There is no potable water treatment plant or communication system provided. The sewage treatment system is described in the Water License Management Plans.

Q36. Is the former contaminated water treatment plant still on-site and if so, is it available for use by the selected contractor? Please forward any details, pictures, specification, etc. associated with this plant.

A36. The water treatment plant was field erected. The components available to the successful Care and Maintenance Contractor are identified in the revised Appendix 3. The components are provided as-is, their condition is not known. Details on the previous treatment plant and process can be found in the Water Licence Management Plans. Photos are included in Appendix 8.



Q37. Will granular screening be required? Is there a screener on-site?

A37. [Granular screening will not be required.](#)

Q38. It is noted in Appendix 4 - Restricted equipment that there are 2 ATVs currently onsite – do these vehicles fulfill the Departmental reps requirement for ATV as per section 01 52 00 Cl 1.6?

A38. [No. These items are not available to fulfill Care and Maintenance Contract requirements.](#)

Q39. Line item #19 in the unit price table – are proponents only able to invoice for the transport of required construction equipment to site under this line item?

A39. [Line item #19 is deleted from the Unit price table – see herein.](#)

Q40. Is the successful proponent expected to provide 2 field labs as per section 01 54 00 Cl. 1.11? Are there existing field labs on-site? If so, do they meet the requirements of the RFP and is the successful proponent able to utilize them?

A40. [Yes, the successful proponent is expected to provide 2 field labs.](#)

Q41. Line Item #16 in the unit price table – can proponents assume that the costs associated with the purchase, and transport to site of all required Water treatment equipment is to be billed under this line item? Is the option year covered with this Provisional Cost Sum?

A41. [No. Refer to Amendment item #7a.](#)

Q42. Are there existing field labs on-site? If so, do they meet the requirements of the RFP and is the successful proponent able to utilize them?

A42. [Yes. Refer to revised Appendix 3](#)

Q43. Mobilization is paid under 01 53 00-2 as Provisional Cost Sum. Demobilization references payment item 01 53 00-3 which is not listed in the basis of payment - please clarify where demobilization costs should be carried in the unit price table.

A43. [In Annex I Mobilization is paid as a lump sum under 01 53 00-1 9\(Line 25\) and Demobilization is paid as a lump sum, item 01 53 00-3 \(Line 26\)](#)

End of Bidders Conference and Questions

**APPENDIX 3  
FURNISHED PRODUCTS**

## Tundra Mine Site

### Appendix 3 - Furnished Equipment

This equipment must be returned in as good or better condition.

Equipment List
Modular Camp (Dorm A) (6 trailers)
- 1 Sleeper trailer (serial# 14186-1254-S(A)-09N01)
- 1 sleeper trailer (serial# 14191-1254-S(F)-10N01)
- 1 Recreational trailer (serial# 14187-1254-R(B)-10N01)
- 1 Washcar trailer (serial# 14188-1254-WC(C)-10N01)
- 1 Kitchen trailer (serial# 14189-1254-K(D)-10N01)
- 1 Diner trailer (serial# 14190-1254-D(E)-10N01)
includes associated diesel tank, 4-1000gal propane tanks c/w skid and 2 - 700gal propane tank c/w skid and contents, Reverse osmosis commercial water treatment system, Satellite communication system,
1994 Ford Pick-up (VIN # 1FTEX14N2RKB08442)
Ingersol Rand portable compressor (serial 3 0706120068)
420D CAT backhoe loader (serial # BLN-11540) c/w bucket, hoe and any other attachments
CAT Pallet forks (serial # 6W-8832)
61000 L envirotank (serial# C-244060)
CD 150 6" godwin pump (serial# B000005230)
6" multi-equip pump
50kW Isuzu gen set (serial # 223520)
50kW Isuzu gen set (serial # 240229)
60 Kw John Deere gen set on a skid (serial# T0405T745806) c/w a 250 gallon Northgate fuel tank
Wobbly wheel roller
Caterpillar D6T Crawler Dozer (Serial # KJL00980)
320CL Backhoe (Serial # PAB01101)
Caterpillar 345 CL VG Excavator (Serial # TDG00340)
740 Articulated Dump Truck (Serial # B1P05394)
T300 Kenworth Lube Truck (fuel truck) (Serial # 2NKMHD7X36M148318)
966H FC Wheel Loader (Serial # A6D02692)
Genie S-85 4x4 Diesel Boom Truck (Serial # S8004-3693)
Ford F450 (service truck) (Serial # 1FDXX47P87EA78491)
Diesel fuel (estimated volume 180,000L)
Kubota RTV (Serial # A5KCIHDAAAG023851)
Lab Trailer (2) Make - Gendall/ Only one on site (Serial # 5739)
Maintenance Shop
Office Trailer
Sleeper - Dorm B
100,000 L Durex Steel and Alloy (edm) Fuel Tank - Upper Tank Farm (Serial # 172)
100,000 L Durex Steel and Alloy (edm) Fuel Tank - Upper Tank Farm (Serial # 173)
100,000 L Durex Steel and Alloy (edm) Fuel Tank - Upper Tank Farm (Serial # 171)
100,000 L Durex Steel and Alloy (edm) Fuel Tank - Upper Tank Farm (Serial # 175)
100,000 L Durex Steel and Alloy (edm) Fuel Tank - Upper Tank Farm (Serial # 177)
100,000 L Durex Steel and Alloy (edm) Fuel Tank - Upper Tank Farm (Serial # 178)
100,000 L Durex Steel and Alloy (edm) Fuel Tank - Upper Tank Farm (Serial # 176)
100kw Isuzu Generator (Serial # 1963)
100kW Perkins Generator (Serial # 100855/30)
Herman Nelson Frost Fighter (Serial # 2101443)
Herman Nelson Frost Fighter (Serial # 7031573)
Herman Nelson Frost Fighter (Serial # 7100775)
Herman Nelson Frost Fighter (Serial # 5101893)
Herman Nelson Frost Fighter (Serial # 7100845)
Light Plant
Light Plant (Serial # 4FVLTBDA56U365149)
Light Plant 8kW (Serial # 361368UIP819)
Light Plant 8kW (Serial # 335296UBN819)
Light Plant 8kW (Serial # 351120UK0819)
Light Plant 8kW (Serial # 362889UJP819)
Godwin pump (Serial # 16MPPF0510AD056845)

Godwin pump (Serial # 16MPPF0514AD056847)
Godwin pump (Serial # 4ACAU1317XCO28613)
Ford E350 Econoline Passenger Van (Serial # 1FBME31PX7DA25497)
Ford 350 Super Duty (Serial # 1FTWW31PX5EB92608)
Ford 350 Super Duty (Serial # 1FTWW31R28EA14231)
Ford 350 Super Duty (Serial # 1FTWW31R18EA17363)
All Water Treatment Plant Components
6x10,000gal Onion Tanks
6x5000gal Chemical tanks
6x5000gal chemical Tanks
3xferric pumps (Serial #: 2710010733; 2710010736; 2710009638)
6xlimepumps (Serial # 2710005877; 2710012780; 2710013692; 2003002308; 2710012779; missing)
3xpolymer pumps (Serial # 2709006287; 2709005848; 2709006849)
4xblowers (Serial # 0711957930; 0704946952; 0907989966; 0907989969)
2xelectric panels
4xmagnet flowmeters (Serial # D701EB1600; E100961600; E100951600; E307B01600)
Steel frame
1 eyewash station
8x mechanical mixers
8inch pvc pipe connections
6xpH meters (Serial # D7071105G00; C5003417G00; D7070E05G00; D7070F05G00; D7070D05G00; missing)
9x8inch valves
Water Treatment Plant Lab Trailer
Westland Dual Chamber Cyclonator Incinerator Model CY-20-CA (Serial # 111083)

**APPENDIX 4**  
**RESTRICTED EQUIPMENT**

**Tundra Mine Site**  
**Appendix 4**

<b>Equipment List</b>
Polaris side-by-side ATV with hardtop
Bombardier 2-seater ATV
Metal trailer
Geomembrane in shipping containers
Geotextile staged and covered

**APPENDIX 7  
FINNING 2014 EQUIPMENT STATUS  
REPORT**

## **2014 Tundra Equipment Status Report**

### **Unit EX-1, Cat 345C, S/N TDG00340, SMU 12751 HRS**

**Next Service Due (what type, and when):** 2000 hr, due @ 12877 hrs.

**Fault Code Corrective Actions:** None required. No active codes.

**SOS Corrective actions:** None required. Fluid condition in all compartments is satisfactory. Continue sampling at the recommended interval.

**Major Repair Corrective Actions:**

The engine and hydraulic systems have overheating issues which are not yet resolved.

The engine oil pan appears to be leaking, and needs to be washed and further inspected.

Engine exhaust smoke is grey / black under load.

Soot around the turbocharger indicates exhaust leaks.

The fan pump is leaking hydraulic oil.

Stick cylinder drift is extreme, indicating severe leakage in cylinder or control valve.

Both boom cylinders are leaking quite badly. Boom cylinder drift cannot be properly checked until stick cylinder drift is repaired.

Bucket cylinder drift is approaching maximum allowable limit of Cat spec.

The main pump is leaking hydraulic oil. Thorough cleaning is required in order to identify all of the leaks.

The swing drive compartment and the area around the main control valve require a thorough cleaning in order to identify leaks and damaged hoses.

Numerous hoses in this area are in poor condition, and require replacement.

Swing bearing play is excessive.

Some play is evident at the boom pin.

Stick and bucket pins / bushings are sloppy. The H-link and associated parts are also worn.

The left center track guide is damaged, and should be repaired or replaced.

The left side track frame mounting bolts are loose, and some are broken off in the track frame. A previous weld repair has failed. Removal of the track frame is required in order to repair the frame and remove the broken bolts.

The front upper windshield is cracked. The front lower windshield is poorly installed plexi-glass and should be replaced with proper glass. The windshield latch is broken, and the door open latch handle is missing. Cab seals should be replaced.

The steps are bent and damaged.

The counterweight is missing a guard on the back.

The upper radiator guard is bent.

The left bucket adapter is bent.

Both boom lights and one cab light are out. Only 2 out of 5 lights work.

**Comments:** Replacement of this unit is recommended.

**Unit EX-3, Cat 320C, S/N PAB01101, SMU 8077 HRS**

**Next Service (what type, and when due):** 1750 hr, due @ 8295 hrs.

**Fault Code Corrective Actions:** None required. No active codes.

**SOS Corrective actions:** No action is necessary at this time.

**Swing Drive:** Trace/low levels of water detected (0.1%) may be condensation. Wear metal analysis indicates acceptable wear rate. Particle count indicates acceptable fluid cleanliness level. Resample at the next service interval.

**Final Drive, Right:** Trace/low levels of water detected (0.1%) may be condensation. Wear metal analysis indicates acceptable wear rate. Particle count indicates acceptable fluid cleanliness level. Resample at the next service interval.

**Hydraulic System:** Trace/low levels of water detected (0.1%) may be condensation. Wear metal analysis indicates acceptable wear rate. Particle count indicates acceptable fluid cleanliness level. Resample at the next service interval.

**Major Repair Corrective Actions:**

Track frames were packed with frozen mud, preventing an adequate inspection of tracks and undercarriage. Thorough cleaning will be required in order to properly evaluate.

Boom cylinder pins are worn.

Boom-stick pins & bushings are worn. Machining may be required.

Stick and bucket cylinder pins are worn. Machining may be required.

Bucket linkage pins are worn. Machining may be required.

Bucket wear-plates, side cutters, tips & adapters are worn.

Some of the steps are bent.

Upper right cab work light is out.

**Comments:** Machining and repair of boom / stick / bucket / linkage is required to reduce play, which is excessive. Further inspection (and repair?) of the undercarriage should be carried out. Otherwise this unit is in good condition.

**Unit DO-2, Cat D6T, S/N KJL00980, SMU 4777 HRS**

**Next Service (what type, and when due):** 2500 hr, due @ 4936 hrs.

**Fault Code Corrective Actions:** None required. No active codes.

**SOS Corrective actions:**

None required. Fluid condition in all compartments is satisfactory. Continue sampling at the recommended interval.

**Major Repair Corrective Actions:**

None required.

**Comments:** Machine is in good overall condition.

**Unit WL-4, Cat 420D, S/N BLN11540, SMU 4106 HRS**

**Next Service (what type, and when due):** 250 hr, due @ 4200 hrs.

**Fault Code Corrective Actions:** None required. No active codes.

**SOS Corrective actions:**

None required. Fluid condition in all compartments is satisfactory. Continue sampling at the recommended interval.

**Major Repair Corrective Actions:**

The front windshield is cracked.

LH door & glass repairs are required.

The RH outrigger creeps down excessively, due to a valve problem (the cylinder is good).

The LH outrigger cylinder is starting to leak.

The fork slides have been welded, and should be replaced.

Some play is evident in bucket & linkage pins / bushings.

**Comments:** Good overall condition. Perform repairs mentioned above.

**Unit WL-6, Cat 966H, S/N A6D02692, SMU 6220 HRS**

**Next Service (what type, and when due):** 1750 hr, due @ 6379 hrs.

**Fault Code Corrective Actions:** None required. No active codes.

**SOS Corrective actions:**

None required. Fluid condition in all compartments is satisfactory. Continue sampling at the recommended interval.

**Major Repair Corrective Actions:** None required.

**Comments:** Good overall condition.

**Unit HV-13, Cat 740, S/N B1P05394, SMU 6133 HRS**

**Next Service (what type, and when due):** 1250 hr, due @ 6203 hrs.

**Fault Code Corrective Actions:** None required. No active codes.

**SOS Corrective actions:** No action is necessary at this time.

**Hydraulic System:** Particle count reading exceeds recommended cleanliness level. Wear metal analysis indicates acceptable wear rate. Oil condition analysis is acceptable. Resample at the next service interval.

**Major Repair Corrective Actions:**

The LH lower mirror is broken off of the railing.

**Comments:** Unit is in good overall condition. Address concerns mentioned above.

**ANNEX 8**

**CAMP AND WATER TREATMENT PLANT COMPONENTS**

## Water Treatment Plant Components

Note that the water treatment plant has been disassembled and the components identified in Appendix 3 are stored at site.



Photo 1: Former Water Treatment Plant



Photo 2: Former Water Treatment Plant



Photo 3: Former Water Treatment Plant

## Camp Photo



The aerial photo shows the camp layout as of April 2013. The maintenance building on the left, four of the tanks within the tank farm, the two 6-trailer units, the trailer immediately left of them and the one above them will remain. Note the sewage lagoon cells in the top right corner of the photo which will also remain