



**Shell Canada Energy**  
400 – 4th Avenue SW,  
P.O. Box 100, Station M,  
Calgary, Alberta T2P 2H5

June 18, 2021

N7L1-1834

**Bijaya Adhikari**, PhD  
Science and Regulatory Coordinator  
Inuvialuit Water Board  
P.O. Box 2531, Inuvik, NT X0E 0T0  
Tel: (867) 678–8610  
Fax: (867) 678–2943  
Email: [adhikarib@inuvwb.ca](mailto:adhikarib@inuvwb.ca)

Re: NOTIFICATION UNDER WATER BOARD LICENCE N7L1-1834 SHELL CANADA ENERGY,  
CAMP FAREWELL

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Dear Dr. Adhikari,

Shell Canada Energy, by its Managing Partner, Shell Canada Limited (Shell) is pleased to submit this Notification under Water Board Licence N7L1-1834 for confirmatory sampling of previous remedial excavations carried out in 2018 and 2019 at Camp Farewell.

The attached notification has been prepared by Golder Associates Ltd. on our behalf and with our support. Should you have any questions or comments please do not hesitate to reach out to myself or one of the Golder associates listed within the attached notification document.

Sincerely,

**Chris Boyd** Ph. D.,  
Environmental Project Manager, LRO  
Shell Canada Energy  
400 – 4th Avenue SW, P.O. Box 100, Station M, Calgary, Alberta T2P 2H5  
Tel: +1 (403) 691-2855  
Email: [Christopher.Boyd@shell.com](mailto:Christopher.Boyd@shell.com)  
Internet: <http://www.shell.com>



**DATE** June 18, 2021

**Project No.** 20368099-1000-Rev0

**TO** Bijaya Adhikari, PhD, Science and Regulatory Coordinator  
Inuvialuit Water Board, 125 Mackenzie Road, Professional Building Suite 302, P.O. Box 2531  
Inuvik, NT, X0E 0T0

**FROM** Punchalee Clair

**EMAIL** Punchalee\_Clair@golder.com

**NOTIFICATION UNDER WATER BOARD LICENCE N7L1-1834  
SHELL CANADA ENERGY, CAMP FAREWELL**

## Introduction

On behalf of Shell Canada Energy (Shell), Golder Associates Ltd. (Golder) is submitting this Notification under Water Board Licence N7L1-1834 for confirmatory sampling of previous remedial excavations carried out in 2018 and 2019 at Camp Farewell, in the Inuvialuit Settlement Region (ISR), Northwest Territories (NWT) (the Site).

The objective for the proposed 2021 and 2022 confirmatory sampling is to assess previously remediated areas and to close on- and off-site data gaps. Throughout the field program, Shell will continue to follow the terms and conditions outlined in Water Licence number N7L1-1834 (2017 term amendment).

The Environmental Impact Screening Committee (EISC) is currently reviewing the proposed 2021 and 2022 confirmatory sampling as an amendment to an existing approval (EISC file 05-18-01) for Camp Farewell.

## Summary of the Proposed 2021 and 2022 Confirmatory Sampling Scope of Work

The 2021 Scope of Work (SOW) for the Site consists of the following proposed activities:

- Excavating approximately 177 test pits on the Site to a maximum depth of 1.5 metres below ground surface (mbgs), using a 25 x 25 m grid. One test pit in each grid and two test pits in select grids along the north, east and south property boundaries will be advanced and sampled using a 200-series excavator;
- Collecting soil samples from the test pits and submitting soil samples for select laboratory analysis of Petroleum Hydrocarbons (PHC; including Benzene, Toluene, Ethylbenzene, Xylenes [BTEX] and F1 to F4 hydrocarbon fractions), metals, sulphate and nitrate; and
- Completing one round of monitoring and collecting groundwater samples from up to nine existing monitoring wells and submitting groundwater samples for laboratory analysis of PHC, Polycyclic Aromatic Hydrocarbons (PAH), dissolved metals and routine potability parameters.

The 2022 SOW for the Site consists of the following proposed activities:

- Off-site delineation to the north and possible off-site delineation to the east and south (pending 2021 assessment results) will be conducted using a mobile 6620 DT Direct Push/Rotary track-mounted drill rig with direct push drilling. This will minimize off-site impacts to these vegetated areas;
- Collecting soil samples from the boreholes and submitting soil samples for select laboratory analysis of PHC (including BTEX and F1 to F4 hydrocarbon fractions), metals, sulphate and nitrate;
- Installing an additional four monitoring wells, for a total of thirteen monitoring wells, in select locations to laterally delineate the groundwater PHC plume; and
- Completing one round of monitoring and collecting groundwater samples from new and existing monitoring wells and submitting groundwater samples for select laboratory analysis of PHC, PAH, dissolved metals and routine potability parameters.

The proposed project schedule for the 2021 and 2022 field programs is presented in Table A.

**Table A: 2021 and 2022 Proposed Project Schedule**

Project Activity	Estimated Time Frame (2021 and 2022)
Applications and permitting	April - June
Logistics planning	April - June
Community engagement	May - June
Field program	Late July - August
Reporting	October - December

## Personnel and Equipment Requirements

The proposed personnel and equipment lists for the 2021 and 2022 field programs are presented in Tables B and C. A barge camp will be mobilized to the Site and used for collection of sewage and other waste for off-site disposal at a certified disposal site. All but one bollard at Camp Farewell were removed in 2019, therefore two deadman anchors will be installed to securely anchor the barge.

**Table B: 2021 and 2022 Proposed Project Personnel**

Personnel	Number Required (2021/2022)
Site Supervisor	1/1
Equipment Operator/ Mechanic	1/2
Environmental Scientist	2/2
Inuvialuit Wildlife Monitor	1/1
Medic	1/1
Barge Maintenance	1/1
Cook	1/1
Cleaner	1/1

**Table C: 2021 and 2022 Proposed Equipment list**

Equipment	Number Required (2021/2022)
Barge camp	1/1
Crew/emergency boat	1/1
Fuel truck	1/1
200-series excavator	1/1
6620 DT Direct Push/Rotary track-mounted drill rig	0/1
Pickup trucks	1/1
All-terrain vehicles	2/2
Spill kits	1/1
Miscellaneous environmental field equipment	1/1

## Consultations

Consultations with Inuvialuit communities are currently underway, and sessions will include the Hunters & Trappers Committees (HTCs), Community Corporation members, Elders committee members and the general public in Inuvik, Aklavik, and Tuktoyaktuk. Consultation records, including a summary, with the Tuktoyaktuk HTC will be provided to the Inuvialuit Water Board (IWB) 30 days prior to mobilization.

## Reporting

Golder is in the process of updating the Emergency Response Plan (ERP), Spill Contingency Plan (SCP) and the barge Waste Management and Disposal Plan (WMP). Once complete, copies of the updated ERP, SCP and barge WMP will be submitted to the IWB 30 days prior to the start of the 2021 field program.

An annual report detailing the results of the 2021 (due by March 31, 2022) and 2022 activities (due by March 31, 2023) at Camp Farewell will be submitted to the IWB in accordance with Water Licence N7L1-1834. The 2019 Reclamation, Closure and Monitoring Plan will be updated with each submission (i.e., as an appendix of the annual report) as appropriate.

## Closure

We trust the information provided herein meets your requirements. If you have any questions about the contents of this letter, please contact the undersigned, or Christopher Boyd (403-691-2855; Christopher.Boyd@shell.com), at your convenience.

### **Golder Associates Ltd.**



Punchalee Clair, P.Eng.  
*Project Manager*  
902-466-1668 ext. 3622  
punchalee\_clair@golder.com



Lenz Haderlein, M.Sc.  
*Principal, Project Director*  
780-509-2427  
lenz\_haderlein@golder.com

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