



April 27, 2017

Nahanni Butte Dene Band
General Delivery
Nahanni Butte, NT X0E 0N0

ISSUED FOR USE
FILE: ENG.YARC03070-01
Via Fax: 867.602.2910

Attention: Chief Peter Marcellais

Subject: Wildlife Research Permit Application
Canadian Zinc Corp., Prairie Creek Mine Proposed All-Season Road

Tetra Tech Canada Inc. (Tetra Tech) has been retained by Canadian Zinc Corp. to conduct baseline wildlife and wildlife habitat surveys for the proposed Prairie Creek Mine all-season access road currently in review with the Mackenzie Valley Impact Review Board.

Surveys will be completed near the proposed access road corridor from approximately Highway 7 (near Nahanni Butte) to the Prairie Creek Mine. Migratory bird, collared pika, and plant community/rare plant surveys are proposed during three field events from mid-May to late September, 2017. Wildlife and plants will be surveyed primarily using ground-based surveys. However, some wildlife and plant communities will be recorded from a helicopter. No wildlife will be captured during the field surveys.

Attached for your review is the *Wildlife Research Permit Application Form*. May we please request that you identify any concerns, requirements, and identify your agreement/disagreement with the proposed study using the attached *Recommendation Form*. Once filled out, the *Recommendation Form* may be returned to the contact below.

If you have any questions or comments, please contact the undersigned.

Respectfully submitted,
Tetra Tech Canada Inc.

A handwritten signature in black ink that reads 'Karla Langlois'.

Prepared by:
Karla Langlois, B.Sc., P.Biol.
Biologist
Direct Line: 867.920.2287x223
Karla.Langlois@tetrattech.com

A handwritten signature in blue ink that reads 'Richard Hoos'.

Reviewed by:
Richard Hoos, M.Sc., P.Biol.
Principal Consultant
Direct Line: 604.608.8914
Rick.Hoos@tetrattech.com

Attachments: Wildlife Research Permit Application Form
Recommendation Form



WILDLIFE RESEARCH PERMIT APPLICATION FORM

Please provide a cover letter that includes:

- Project title
- One-line summary
- Species studied
- Location of study area

Sign the letter and provide your contact information.

Check One Please: New Project Ongoing Project

APPLICANT:

Karla Langlois, B.Sc., P.Biol., Tetra Tech Canada Inc.

ADDRESS:

Tetra Tech Canada Inc.

Box 2244, 201, 4916-49 Street, Yellowknife, NT X1A 2P7

P: (867) 920-2287; F: (867) 873-3324; E: Karla.Langlois@tetrattech.com

SPONSOR(S): Canadian Zinc Corp.

FUNDING SOURCE(S): Canadian Zinc Corp.

ADDITIONAL LICENCES REQUIRED: Parks Canada Agency Research and Collection Permit

PROJECT TITLE:

Environmental Baseline Studies for the Proposed Prairie Creek Mine All-Season Access Road

RATIONALE:

To conduct wildlife and wildlife-habitat baseline studies along the proposed Prairie Creek mine all-season road. Field studies will include both ground-based and aerial passive surveys along the entire proposed access road. Surveys to target migratory birds, collared pika, plant communities, and rare plants.

TIME PERIOD:

Field studies will be completed over the summer period, starting mid-May and ending late September, 2017. Throughout this period, field programs will consist of approximately 3 to 14 field days, depending on the survey objective.

LOCATION AND NEAREST COMMUNITY:

Surveys to be completed along the proposed Prairie Creek Mine all-season access road corridor. The proposed road connects the Prairie Creek Mine with Highway 7, near Nahanni Butte, NT.



SPECIES STUDIED:

Migratory birds, collared pika, habitat communities, rare plants.

PROJECT LEADER:

Karla Langlois

PROJECT PERSONNEL:

Karla Langlois, Ryan Adams, Amy McLenaghan, Steve Moore, Jeff Matheson

OBJECTIVES:

- migratory bird species presence, distribution, and relative abundance
- collared pika presence and relative abundance
- plant community and rare plant presence and assemblage

METHODS:

Survey methods will be developed in consultation with ENR (i.e., collared pika), Parks Canada (i.e., collared pika, migratory birds, plant community/rare plant), and Environment and Climate Change Canada (i.e., migratory birds). Consultations have begun to design the migratory birds surveys.

Migratory bird surveys will be completed using Autonomous Recording Units (ARUs) to be installed primarily within 200 m of the proposed all-season road. Bird species presence, distribution, and relative abundance data will be analyzed in the office. ARUs will be retrieved by late September 2017.

Collared pika surveys will comprise ground-based observation station and talus transect surveys. No captures are proposed. Passive surveys to record vocalizing pikas, and walking transects to record signs of pika occupancy.

Plant community/rare plant surveys include ground-based surveys and will follow the *Guidelines for Rare Vascular Plant Surveys in Alberta – 2012 Update*.

CURRENT CONSULTATION:

- 1) Dehcho First Nations; 2) Nahanni Butte Dene Band; 3) Liidlii Kue First Nation, and 4) Fort Simpson Metis Nation Local 52.

FUTURE COMMUNITY CONSULTATION PLAN:

Canadian Zinc Corp. has a long history of local community consultations for approximately 20 years. Consultations include mine site tours, in-person meetings, telephone and email correspondence. Canadian Zinc Corp. has also negotiated IBAs with the Nahanni Butte Dene Band and Liidlii Kue First Nation since 2011. Refer to the engagement logs presented in the Developers Assessment Report, EA1415-01 for the Mackenzie Valley Environmental Impact Review Board. Community consultations will be ongoing and continuous throughout the development phases.

OPPORTUNITIES FOR LOCAL PARTICIPATION:

- 1 to 2 field assistants required per field survey.



MANAGEMENT OR RECOVERY PLANS:

Project is not part of an accepted wildlife management plan or recovery plan

FOLLOW UP REPORT:

Not applicable

Instructions for submitting your application

If your study will be conducted in **ONLY ONE ENR REGION**, please submit your cover letter and application to the ENR Superintendent for that Region.

Inuvik Region

**(Includes Inuvialuit Settlement Region
And Gwich'in Settlement Area)**

Regional Superintendent
Inuvik Region
Department of Environment and Natural Resources
Government of the Northwest Territories
Bag 1
Inuvik, NT X0E 0T0
(fax) 867-678-6659

North Slave Region

Regional Superintendent
North Slave Region
Department of Environment and Natural Resources
Government of the Northwest Territories
PO Box 2668
Yellowknife, NT X1A 2P9
(fax) 867-873-6230

Sahtu Settlement Area

Regional Superintendent
Sahtu Region
Department of Environment and Natural Resources
Government of the Northwest Territories
PO Box 130
Norman Wells, NT X0E 0V0
(fax) 867-587-3516

South Slave Region

Regional Superintendent
South Slave Region
Department of Environment and Natural Resources
Government of the Northwest Territories
PO Box 390
Fort Smith, NT X0E 0P0
(fax) 867-872-4250

Deh Cho Region

Regional Superintendent
Deh Cho Region
Department of Environment and Natural Resources
Government of the Northwest Territories
PO Box 240
Fort Simpson, NT X0E 0N0
(fax) 867-695-2381

Recommendation Form

Wildlife Research Permit - Application

Applicant should provide all the information in the underlined zones.

The terms Committee or Board mean a "Hunter's and Trappers' Association" as defined in the Wildlife Act.

The Committee or Board

Name: Nahanni Botte Dene Band of Community: Samp.

SUPPORTS or DOES NOT SUPPORT

the application of

Name of Applicant or Group: Tetra Tech.
Address of Applicant: _____
FAX number of Applicant: _____

for the issue (or renewal or amendment) of a Wildlife Research Permit.

Signature: X Peter Marcellai Date: 27 April 2017
of President, Committee or Board. Chief Peter Marcellai

Title of project: Environmental Baseline Studies - Prairie Creek.

Recommended Terms and Conditions:

That opportunities for the community, including employment for community members, if available be offered to the community/members.

Reasons for decision:

This work is seen to support the aspirations of the community for the mine to get in to operation.

(Use more space as required)