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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI  
OFFICE DES EAUX DU NUNAVUT

## EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

**Applicant:** West Kitikmeot Gold Corp.

**Licence No:** 2BE-ABP1823

(For NWB Use Only)

### ADMINISTRATIVE INFORMATION

1. Environment Manager: [Elliot Holland](#) Tel: (867) 983-2458 E-mail: [eholland@westkitgold.ca](mailto:eholland@westkitgold.ca)
2. Project Manager: [Elliot Holland](#) Tel: (867) 983-2458 E-mail: [eholland@westkitgold.ca](mailto:eholland@westkitgold.ca)
3. Does the applicant hold the necessary property rights? [Yes](#)
4. Is the applicant an 'operator' for another company (i.e., the holder of the property rights)? If so, please provide letter of authorization.

[Application completed by APEX Geoscience Ltd. \(APEX\) on behalf of West Kitikmeot Gold Corp. \(WKG\). See "WKG Arcadia Bay APEX Authorization Letter 20221128."](#)

5. Duration of the Project

- One year or less  
 Multi Year:

Start and completion dates:

If Multi-Year indicate proposed schedule of on site activities

Start: [May 1, 2023](#)

Completion: [April 30, 2028](#)

[Exploration activities are anticipated to be conducted annually from March to September](#)

### CAMP CLASSIFICATION

6. Type of Camp

- Mobile (self-propelled)  
 Temporary  
 Seasonally Occupied: [Dominantly summer operations](#)  
 Permanent  
 Other: \_\_\_\_\_

7. What is the design, maximum and expected average population of the camp?

[The proposed exploration program will be supported by a 20 person camp. Structures for the proposed camp are expected to include 1 office tent, 3 sleeping tents, 1 first aid tent, 1 kitchen tent, 1 dry, 1 generator/storage shack or weatherhaven tent, 1 core logging/sample storage shack and 1 wooden](#)

outhouse structure. The majority of the structures will be insulated Weatherhaven tents, or similar, with plywood floors.

8. Provide history of the site if it has been used in the past.  
The camp site was used by Orofino Resources Ltd. in the late 1980's.

### CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.

The camp will be located adjacent to a river at a historic site used by Orofino Resources Ltd. in the late 1980's. The approximate location of the camp is 67°43'12.9" N and 111°23'6.9" W (483701E/7511726N UTM NAD 83 Zone 12).

10. How was the location of the camp selected? Was the site previously used? Was assistance from the Regional Inuit Association Land Manager sought? Include maps and/or aerial photographs.

The proposed camp locations was selected due to its previous use by Orofino Resources Ltd. in the late 1980's. See "220517 – WKG Arcadia Bay Property Location Figure"

11. Is the camp or any aspect of the project located on:

- |                                     |                     |  |
|-------------------------------------|---------------------|--|
| <input type="checkbox"/>            | Crown Lands         | Permit Number (s)/Expiry Date: _____                     |
| <input type="checkbox"/>            | Commissioners Lands | Permit Number (s)/Expiry Date: _____                     |
| <input checked="" type="checkbox"/> | Inuit Owned Lands   | Permit Number (s)/Expiry Date: KTL317C015 / Jul 25, 2023 |

12. Closest Communities (direction and distance in km):

The Property is located near the shore of Arcadia Bay, on the Coronation Gulf, approximately 305 km south of Cambridge Bay and 160 km east of Kugluktuk.

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?

West Kitikmeot Gold has been in communication with the Kitikmeot Inuit Association regarding the proposed Project activities and will be scheduling consultations with the Hamlet, Hunters and Trappers Organization and community members of Kugluktuk prior to commencement of the field program.

14. Will the project have impacts on traditional water use areas used by the nearby communities?

Will the project have impacts on local fish and wildlife habitats?

No impacts on traditional land use or water use are anticipated. All potential environmental effects associated with the proposed Project are expected to be minor, localized effects that can be mitigated. No significant residual impacts to the environment are expected to occur as a result of the implementation of this program. All exploration activity planning will take into account any possible impacts to the cultural value, including subsistence harvesting, of the area and quality of water.

### PURPOSE OF THE CAMP

15.  Mining (includes exploration drilling)  
 Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.)  
(Omit questions # 16 to 21)  
 Other \_\_\_\_\_

**16.** Activities (check all applicable)

- Preliminary site visit
- Prospecting
- Geological mapping
- Geophysical survey
- Diamond drilling
- Reverse circulation drilling
- Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
- Other: [geochemical sampling](#)

**17.** Type of deposit (exploration focus):

- Lead Zinc
- Diamond
- Gold
- Uranium
- Other: \_\_\_\_\_

**DRILLING INFORMATION**

**18.** Drilling Activities

- Land Based drilling
- Drilling on ice

**19.** Describe what will be done with drill cuttings?

The drill waste, including water, cuttings and muds will be disposed of in a properly constructed sump or an appropriate natural depression; at least 31 m from the ordinary high water mark of any adjacent water body, where direct flow into a water body is not possible and no additional impacts are created.

**20.** Describe what will be done with drill water?

Drilling will utilize recirculation and filtration systems to minimize loss of water and drill additives. Bio-degradable drilling fluids will be used at all times wherever possible and CaCl<sub>2</sub> only when necessary. Drilling fluids will be directed into a properly constructed sump or an appropriate natural depression, at least 31 m from the ordinary high water mark of any adjacent water body, where direct flow into a water body is not possible. If any artesian water flow is detected, the hole will be plugged immediately and cemented in bedrock to prevent continued flow..

**21.** List the brand names and constituents of the drill additives to be used? Includes MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable.

The exact drill additives are not known at this time, but WKG will ensure that the drilling contractor maximizes the use of non-toxic and biodegradable additives. The Arcadia Bay Spill Contingency and Fuel Management Plan will be updated with appropriate MSDS sheets once any additional additives are determined.

The following materials may potentially be present at the drill site:

- drill fluid additive “550X polymer” (consists of copolyacrylamide / sodium acrylate; Non Toxic)
- tube grease - Beacon 2, Z-50 pipe dope (Non Toxic)

- circulation polymer – G-stop (Non Toxic)
- antifreeze – Calcium Chloride (CaCl<sub>2</sub>)
- rod grease – Big Bear diamond drill rod grease (Non Toxic)
- motor oil – super plus SAE 10W30 and 15W-40 (Non Toxic)
- hydraulic oil –Harmony AW 22, 32, 46, 68 (Non Toxic)
- Linseed Soap – (Non Toxic)

SDS/MSDS are located in Appendix 2 of the Arcadia Bay Spill Contingency and Fuel Management Plan.

22. Will any core testing be done on site? Describe.

Core will be cut and sampled at the camp, but all analytical testing will be performed in an accredited laboratory off site.

### SPILL CONTINGENCY PLANNING

23. The proponent is required to have a site specific Spill Contingency Plan prepared and submitted with the application This Plan should be prepared in accordance with the *NWT Environmental Protection Act, Spill Contingency Planning and Reporting Regulations, July 22, 1998* and *A Guide to the Spill Contingency Planning and Reporting Regulations, June 2002*. Please include for review.

See the “Arcadia Bay Spill Contingency and Fuel Management Plan”

24. How many spill kits will be on site and where will they be located?

Appropriate spill kits and firefighting equipment will be located proximal to any hazardous materials. Spill kits will be located near any potential areas at risk such as: fuel caches, hazardous materials storage, drill sites, barge landing and also at numerous places around camp, such as near the core shack, shop, generator, incinerator, kitchen and near the pump at the water source. See the “Arcadia Bay Spill Contingency and Fuel Management Plan” for additional information.

25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.

A main fuel cache will be established proximal to the camp, primarily to store diesel and jet fuel, with smaller quantities of gasoline and propane. Small fuel caches will also be established at drill sites while drilling is in progress. These temporary caches will store small amounts of diesel and propane, as needed for drilling. Other hazardous materials found on site may include small quantities of various lubricants/oil/grease for drilling and maintenance of motorized equipment, cleaning products, and waste oil.

Diesel, jet fuel, and gasoline will be stored in 205 litre (L) steel drums. Propane will be stored in 100 pound (lb) cylinders equipped with pressure relief valves. Waste oil will be sealed in 205 L steel drums and removed from camp for proper disposal. See “Arcadia Bay Spill Contingency and Fuel Management Plan” for MSDS.

Material	Container	Maximum On Site
Diesel	205 L Drum	300 Drums
Jet Fuel (Jet A or Jet B)	205 L Drum	300 Drums
Gasoline	205 L Drum	20 Drums

Propane	100 lb Cylinder	50 Cylinders
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## WATER SUPPLY AND TREATMENT

**26.** Describe the location of water sources.

All camp and exploration activities, including drilling, will be within IOL parcel CO-31. The water source for the camp will be a river adjacent the camp located at approximately 67°43'13"N and 111°23'6" W. Water for drilling will be drawn from numerous adjacent waterbodies, once target locations have been selected. Care will be taken to ensure that water is drawn from bodies with sufficient capacity in order to avoid impact on water level or flow.

**27.** Estimated water use (in cubic metres/day):

- Domestic Use: 10 m<sup>3</sup>/day Water Source: River adjacent the camp located at approximately 67°43'13"N and 111°23'6" W.
- Drilling: 289 m<sup>3</sup>/day Water Source: numerous unnamed sources
- Other: \_\_\_\_\_ Water Source: \_\_\_\_\_

**28.** Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? (see *DFO 1995, Freshwater Intake End-of-Pipe Fish Screen Guideline*) Describe:

The water intakes for the camp may use an electrically powered submersible pump with a fine screen (<1/4" openings) on the intake. The drill pumps generally use a 1" inside diameter suction hose on the diesel pump with a fine screen on the foot valve. For drilling, a fibreglass window screen with a nominal opening size of less than 1/16" is also generally wrapped around the foot valve to prevent the intake of silt and sand into the pump, which can cause considerable damage to the pump chambers. In addition, it is common practice for the drilling contractor to place the foot valve of the intake hose in a perforated 20L pail, which further protects against harmful materials and fish being entrained into water intake hoses.

**29.** Will drinking water quality be monitored? What parameters will be analyzed and at what frequency?

Drinking water quality will be monitored for various types of coliform bacteria, upon mobilization to the camp, periodically during the program and upon de-mobilization.

**30.** Will drinking water be treated? How?

Water will be lightly chlorinated and a UV filter used on the drinking water at the camp.

**31.** Will water be stored on site?

Water will be stored in temporary 500 L plastic tanks.

## WASTE TREATMENT AND DISPOSAL

**32.** Describe the characteristics, quantities, treatment and disposal methods for:

Waste management operations at the Arcadia Bay Property will comprise a number of activities with the common goal of reducing the amount of waste generated on site and to ensure that any wastes created are reused, recycled, or disposed of in a responsible manner. Wastes will be separated at the source into a number of categories including: organics (food wastes), materials for incineration, inert

recyclables, inert non-combustible materials, and various hazardous materials. Materials that cannot be incinerated or burned will be stored in appropriate containers until they can be removed from site for treatment and/or disposal at an accredited facility. For further information see the Arcadia Bay Property Waste Management and Abandonment and Reclamation plans.

**X Camp Sewage (blackwater)**

A pacto toilet system will be used and the waste incinerated. WKG will ensure that the incinerator is a model that is specifically designed to be capable of incinerating this type of waste. The incinerator model will be identified in the annual reports submitted to NIRB, KIA and NWB.

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**X Camp Greywater**

Camp greywater will be stored and treated in an excavated sump, which will allow for slow infiltration into the soil and will be located at least 31 m away from a water body. If available, coarse gravel will be placed in the bottom of the sump to provide filtration, and supports will be built on the sides to prevent slumping. Filters will be installed on kitchen drains to ensure solid food wastes do not enter the sumps and have the potential to attract wildlife. Sumps and pipes will be inspected at regular intervals for leaks or overflow. When full, greywater sumps will be covered with enough material to allow for future ground settlement.

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**X Solid Waste**

Combustible solid waste will be incinerated with an Environment Canada approved batch waste, controlled air, dual chamber incinerator. All combustible waste will be incinerated in accordance with the Nunavut Environmental Guidelines for the Burning and Incineration of Solid Waste. Any residual waste (ash) will be placed in sealed containers and disposed of at an accredited facility.

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**X Bulky Items/Scrap Metal**

Effort will be taken to reuse or repurpose any materials before disposal is considered. Materials that cannot be reused, repurposed, or incinerated such as: scrap metal, glass, electronics, tires, hoses and other rubber materials will be stored in appropriate containers until they can be removed from site for recycling, treatment and/or disposal at an accredited facility.

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**X Waste Oil/Hazardous Waste**

All hazardous wastes such as: lubricating oils, hydraulic fluids, petroleum based solvents, batteries, aerosol cans and fluorescent light bulbs will be placed in sealed containers and stored within “Arctic Insta-Berms”, or similar, for secondary containment until they can be reused or backhauled for recycling or disposal. A hazardous waste storage area will be established adjacent to the camp fuel cache.

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**X Empty Barrels/Fuel Drums**

Empty containers will be stored in a designated area and returned to the supplier. Drums may alternatively be drained, air dried, backhauled to a recycling facility.

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**X Other:**

Used rags, sorbents, batteries, aerosol cans and any contaminated soil, snow, or ice will be placed in clearly labeled, tightly sealed containers, such as 205 L steel drums and stored in the hazardous waste storage area until backhaul is possible.

Waste lead acid batteries and rechargeable batteries can only be stored in this manner in quantities of 1,000 kg or less and for periods of less than 180 days. All waste lead acid and rechargeable batteries will be backhauled from site as necessary to conform to regulations. Use of aerosol cans at the Property will be limited and whenever possible, alternatives, such as spray bottles, will be used in place of aerosol cans.

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**33.** Please describe incineration system if used on site. What types of wastes will be incinerated?  
A batch feed dual-chamber controlled air incinerator will be used to incinerate inert combustible solid wastes, such as food, paper, cardboard and untreated wood. Ashes will be stored in sealed containers and removed from site for disposal at an approved facility. If sewage will be incinerated, WKG will ensure that the incinerator is a model that is specifically designed to be capable of incinerating this type of waste. The incinerator model will be identified in the annual reports submitted to NIRB, KIA and NWB.

**34.** Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?  
All non-combustible and hazardous materials will be transported to and from camp via fixed-wing, barge or helicopter, as needed, and backhauled to Kugluktuk, or if required, to a location in a southern province. All authorizations for waste disposal will be obtained prior to commencement of field work.

**35.** Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for all sumps (if applicable).  
Camp greywater will be stored and treated in an excavated sump, which will allow for slow infiltration into the soil and will be located at least 31 m away from a water body. If available, coarse gravel will be placed in the bottom of the sump to provide filtration, and supports will be built on the sides to prevent slumping. Filters will be installed on kitchen drains to ensure solid food wastes do not enter the sumps and have the potential to attract wildlife. Sump will be monitored to ensure they maintain an adequate freeboard at all times. Sumps and pipe will be inspected at regular intervals for leaks or overflow. When full, greywater sumps will be covered with enough material to allow for future ground settlement.

**36.** Drilling greywater will be stored and treated in an excavated sump or natural depression, located at least 31 m away from a water body. Sumps will be positioned down slope from the drill collar in such a manner that runoff flows into the sump.

**37.** Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?  
No leachate will be produced on site.

## **OPERATION AND MAINTENANCE**

**38.** Have the water supply and waste treatment and disposal methods been used and proven in cold climate? What known O&M problems may occur? What contingency plans are in place?

The water supply and disposal methods have been employed in a multitude of exploration camps throughout Nunavut and are considered safe and common practice. No problems are anticipated, but numerous contingency plans, such as the Arcadia Bay Spill Contingency and Fuel Management Plan will be in place to ensure any issues are dealt with quickly and efficiently.

## **ABANDONMENT AND RESTORATION**

- 39.** Provide a detailed description of progressive and final abandonment and restoration activities at the site.

Drill sites will have all equipment and garbage removed at the termination of each hole. Drill casing will be removed whenever possible. Any remaining/fused casing will be cut off at or below ground level and capped. Any holes with flowing water will be permanently sealed unless written instruction from the relevant authority is received to indicate otherwise.

Prior to a seasonal shutdown of the program, a complete inspection of all drill sites, fuel caches and camp areas will be conducted. Photographs will be taken to document the conditions and will be archived. Copies of these photos will be included as part of the Annual Report. A full inventory of all structures, equipment, fuel, and other supplies will be taken at the end of each exploration season. All food, fuel, wastes, empty fuel drums, and valuable or sensitive equipment will be removed from site. Any salvageable items (i.e. food) may be donated to the communities if desired. A few wooden structures will be left at the camp. All structures to be left on site will be winterized, closed off, and secured. One structure will be designated to house any chemicals or other hazardous materials that are not suited to outdoor storage. All water tanks and pipes will be drained at the end of each season. Pumps and hoses will be drained and stored inside a secured structure. All mechanical equipment, including vehicles and generators will be winterized and stored in berms for secondary containment. When possible, the equipment and berms will be fully covered. All empty drums will be removed from site.

Any contaminated areas around the camp, fuel caches or drill sites will be treated in accordance with the Arcadia Bay Spill Contingency and Fuel Management Plan. Any washed-out areas will be filled and re-contoured to natural levels. Any areas of disturbed vegetation, including camp, fuel caches or drill sites will be photographed and managed as per recommendation of the KIA inspector. Remediation procedures might include fertilization to encourage re-growth.

Prior to final abandonment, a thorough inspection of all areas, including camp, drillsites and anywhere fuel was stored or transferred will be conducted. Any contaminated areas that have gone unnoticed will be treated as per the Arcadia Bay Property Spill Contingency and Fuel Management Plan. Photographs will be taken to include in the final reports submitted to the KIA, NWB and NIRB. All relevant regulatory agencies will be notified upon final abandonment of the Property.

Prior to land use permit or water licence termination, all structures, equipment, supplies, and fuel will be removed from the Property. Any wooden floors will be burned in accordance with the Nunavut Environmental Guideline for the Burning and Incineration of Solid Waste, and tent sites may be fertilized, as per recommendation by the KIA Inspector, to encourage re-vegetation. The open burning of structures will only occur after approval from the KIA and NWB. Any materials of value on site will be salvaged. Local businesses and residents will have the opportunity to salvage any remaining materials that will otherwise be disposed of. All remaining fuel and empty drums will be removed from site. The soil under and surrounding any area where fuel was stored will be thoroughly inspected for any contamination and photographs will be taken.

For additional information see the Arcadia Bay Abandonment and Restoration Plan.

## BASELINE DATA

40. Has or will any baseline information be collected as part of this project? Provide bibliography. Baseline data collection is not anticipated this year other than the drinking water quality, which will be monitored for various types of coliform bacteria, upon mobilization to the camp and periodically during the program. In addition, camp and field crews are required to report and log all sightings of wildlife and archaeological or paleontological sites or artifacts.

- Physical Environment (Landscape and Terrain, Air, Water, etc.)
- Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms, etc.)
- Socio-Economic Environment (Archaeology, Land and Resources Use, Demographics, Social and Culture Patterns, etc.)
- Other: \_\_\_\_\_

## REGULATORY INFORMATION

41. At a minimum, you should ensure you have a copy of and consult the documents below for compliance with existing regulatory requirements:

- ✓ ARTICLE 13 – NCLA -Nunavut Land Claims Agreement
- ✓ NWNSRTA – The Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002
- ✓ Northwest Territories Waters Regulations, 1993
- ✓ NWB - Water Licensing in Nunavut - Interim Procedures and Information Guide for Applicants
- ✓ NWB - Interim Rules of Practice and Procedure for Public Hearings
- ✓ RWED – Environmental Protection Act, R-068-93- Spill Contingency Planning and Reporting Regulations, 1993
- ✓ RWED A Guide to the Spill Contingency Planning and Reporting Regulations, 2002
- ✓ NWTWB - Guidelines for Contingency Planning
- ✓ Canadian Environmental Protection Act, 1999 (CEPA)
- ✓ Fisheries Act, RS 1985 - s.34, 35, 36 and 37
- ✓ DFO - Freshwater Intake End of Pipe Fish Screen Guideline
- ✓ NWTWB - Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
- ✓ Canadian Council for Ministers of the Environment (CCME); Canadian Drinking Water Quality Guidelines, 1987
- ✓ Public Health Act - Camp Sanitation Regulations
- ✓ Public Health Act - Water Supply Regulations
- ✓ Territorial Lands Act and Territorial Land Use Regulations; Updated 2000