



Title 9 Major Use Permit No.: 108-03-22
City of Kobuk
Community Septic System Replacement
Date of Issue: October 10, 2022
Permit Expires: December 31, 2024

Permit Issued By:

Northwest Arctic Borough
Planning Department
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Kotzebue, AK 99752
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Permittee:

City of Kobuk
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Permittee Contact Information:

Alaska Native Tribal Health Consortium
ATTN: Karen Brown
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Project Description:

The City of Kobuk (CITY), with assistance from the Alaska Native Tribal Health Consortium (ANTHC), is proposing to replace the existing community septic system within the community of Kobuk ('Placement of fill in a wetland, less than one acre' is a Minor Use and 'Sewer or water utility' and 'Public Facilities' are Major Uses in the Village District). The project will replace two 6,340-gallon tanks, construct a drainfield and monofill locations, and install a culvert on the Lagoon Access Road.

CITY anticipates the project to begin June 2022 and be completed by December 2023.

Specific details of the project are contained in the permit application (22-02-108) submitted by CITY to the Borough Planning Department. This application is incorporated into the Borough's administrative record. Project Activities are summarized below.



This permit application did not include gravel extraction or reclamation plans. This use permit does not provide for gravel extraction and reclamation, rather its scope is the replacement of an existing community septic system, and land uses associated with providing a drainfield.

Project Location:

The project site is located at 18 North, Range 9 East, Section 34, Kateel River Meridian, USGS Quad Map Shungnak D-2.

The project site is within the community of Kobuk in the Village Zone near the airport.

Existing Septic System:

The existing system consists of 2-4,000 septic tanks and 2-0.4-acre drainfields, a manhole, and connection to the sewer main. Together, the septic tanks, stand pipes, and terminal manhole contain approximately 70 cubic yards (cy) of sewage sludge. Figure 1 shows the project area.

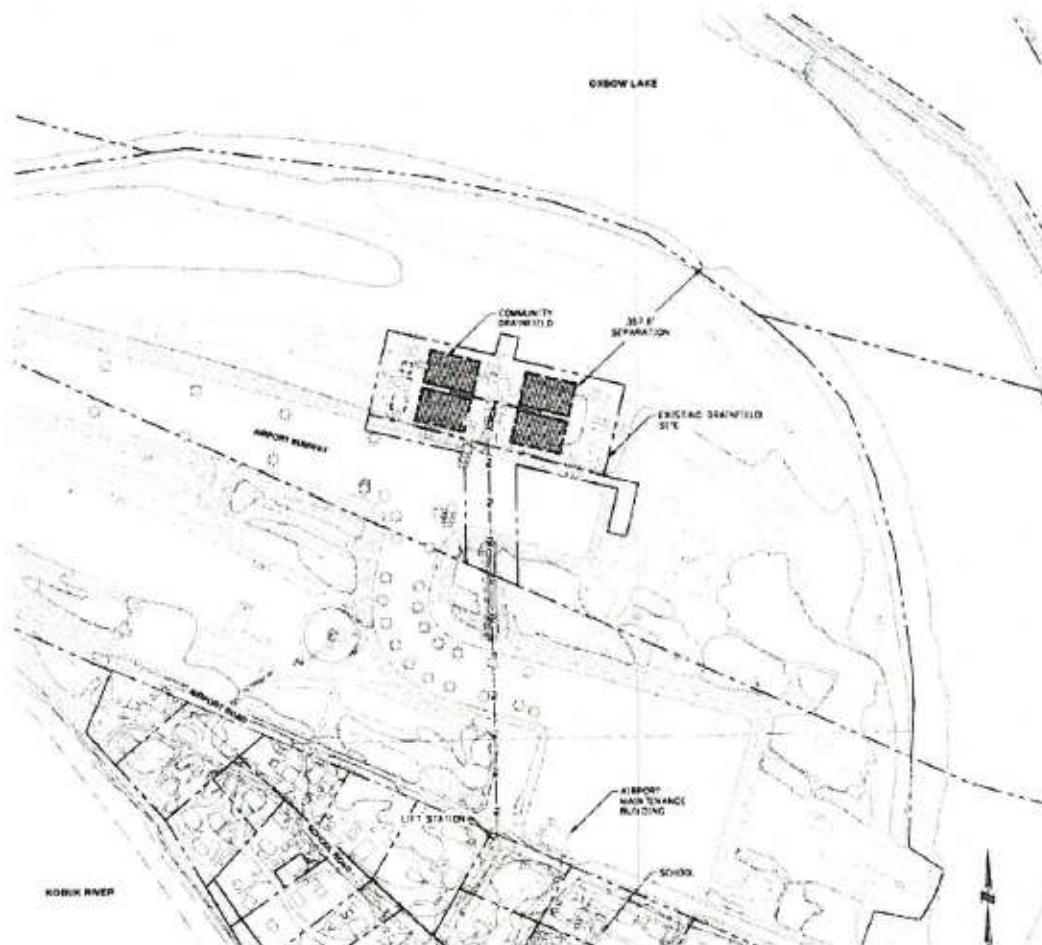


Figure 1. Location of Project



Septic System Replacement:

ANTHC on behalf of the City of Kobuk will construct a replacement septic system in the same location as the existing system in Kobuk. The existing septic tanks (two - 4,000-gallon steel tanks), drainfields (two - 0.4-acre drainfields) and appurtenances will be excavated, removed, disposed and replaced. The replacement septic system consists of two-6,340 -gallon HPDE tanks and two – 0.4-acre drainfields.

A temporary sewer bypass will route all wastewater to temporary septic tank and existing drainfield 2. Septic tank 1 and drainfield 1 will be removed and replaced. Once construction is complete, the temporary bypass will be rerouted to septic tank 1 and drainfield 1. Septic tank 2 and drainfield 2 will be removed and replaced. After both septic systems are in place, the existing sewer main will be connected. The existing manhole and sewer main will remain in place.

During construction, the plan is to reuse all soils from the existing septic system. Up to 70 cy of sewage solids will be placed in an adjacent sewage solid monofills. If soil from the existing system cannot be reused, up to 930 cy will be placed in the Sewage Solids Monofill. The Sewage Solids Monofill is located adjacent to and west of the existing septic system.

A separate Inert Waste Monofill will also be located adjacent to and west of the existing septic system. The material proposed for disposal in the Inert Waste Monofill are the metal septic tank pieces (17 cy), crushed piping (15 cy), and 300 cy of board insulation.

Sewer rock will be reused. However, if additional rock is required, it will be mined from NANA Pit 1 by ANTHC located west of the old Dahl Creek runway and the Bornite Pit #6 (see Figure 2).



Figure 2. Ambler Metals Gravel Pits



Overburden soils and rock will be stockpiled on the north side of the septic system. Two feet of clean fill will be placed on top of the septic system excavation, and previously segregated top soils will be used to cap the excavations. All disturbed areas will be seeded to promote revegetation.

The existing sewer force main which crosses under the runway will not be disturbed. All construction will take place on the north side of the runway. No equipment will operate from the runway. No materials, equipment or supplies will be stored on the runway.

Up to 3000 gallons of water a day from Oxbow Lake will be used during construction for dust control. Because of the proximity to the runway, water will be used dust control as needed during dry days.

Current Approvals:

- ADEC Construction General Permit and Stormwater Pollution Prevention Plan – Application Submittal Pending
- ADEC Solid Waste One-Time Use Sewage Solids Monofill – Application Submittal Pending
- ADEC Solid Waste Inert Waste Monofill – Application Submittal Pending
- ADEC Wastewater Approval to Construct – Application Submitted
- ADF&G Fish Habitat Permit – for water withdrawal from Oxbow Lake for dust control and other construction uses – Permit Attached
- ADNR Temporary Water Use Authorization - for water withdrawal from Oxbow Lake for dust control and other construction uses – Application Submitted
- ADOT&PF Building Permit – Application Submittal Pending
- FAA – Obstruction Evaluation – Final Determination Received November 17, 2021, expires May 17, 2023

Permit Authorization and Documentation:

CITY submitted a Title 9 Land Use Permit application (22-02-108) for the following Uses: 'Placement of fill in a wetland, less than one acre' is a Minor Use and 'Sewer or water utility' and 'Public Facilities' are Major Uses in the Village District.

The Title 9 application was received on December 13, 2021. On January 31, 2022 the Borough Planning Department deemed the application was complete.

Permit fees totaled \$500 for the project.

Pursuant to Northwest Arctic Borough Code (NABC) 9.12.020, the **Planning Director** has the authority to permit:

- Placement of fill in a wetland, less than one acre—Minor Use in the Village District



- Sewer or water utility—Major Use in the Village District
- Public Facilities—Major Use in the Village District

A Major Use Permit requires a 20-day public review comment period. The public comment period started on August 31, 2022 and ended on September 27, 2022. There were no public comments.

Proposed Permit Terms and Conditions:

1. The City of Kobuk (CITY) shall comply with the terms of the permission/permits agreements granted by the federal government, State of Alaska, and/or local governments.
2. CITY shall comply with any and all applicable local, borough, state and federal laws. Failure to abide by any part of this permit, or violations of any pertinent borough ordinances or state or federal law or regulation, will be considered grounds for revocation of the permit or denial of future permit requests and may result in issuance of fines or other penalties. This provision applies to all persons working under the authority of this permit.
3. The Permittee is responsible for ensuring that all employees, contractors, sub-contractors, and any other persons working for the permittee and conducting activities allowed by this permit are familiar with and adhere to the conditions of this permit.
4. CITY is subject to all penalties and civil actions pursuant to section 9.08.240 for violation of the permit conditions and stipulations prescribed herein.
5. During and after project activities, the permittee must conduct activities in a manner to maintain natural drainage patterns, watershed protection, and permafrost stability, to prevent runoff and erosion into water supplies and to minimize alteration of vegetation.
6. The permittee shall ensure fire safety and emergency access necessary for fire and emergency apparatus and police protection.
7. All project activities shall utilize measures to minimize noise and nuisance affecting surrounding residential properties including excessive noise, fumes, odors, glare, smoke, vibration, dust, litter, interference in any telephone, radio or television receivers, and/or significant line voltage fluctuation.
8. Any development by the project in floodplains and shoreline areas are to be constructed to minimize loss of life or property due to riverine flooding, icing, and stream bank erosion.
9. The Borough recognizes that this area within **Ambler** is a low flood hazard area, but may be subject to flooding which may result in the loss of life and property, health and safety hazards, disruption of commerce and governmental services, and extraordinary public



expenditures for flood protection and relief, all of which adversely affect the health, safety and general welfare of Ambler residents. The Borough has adopted the necessary regulations of the Federal Emergency Management Agency (FEMA) to enable its communities and residents to participate in the National Flood Insurance Program (NFIP). See NABC 9.25.020.O.

To promote the public health, safety and general welfare by minimizing flood damage and loss and promoting access to disaster relief, the following conditions must be met:

- a. Encourage protection of land uses vulnerable to floods, including public facilities and utilities that serve such uses, against flood damage at the time of initial construction or substantial improvement.
Ensure that those persons who occupy areas of special flood hazards assume responsibility for occupying such flood hazard areas.
 - b. All new construction and substantial improvements shall meet the following general standards, as applicable:
 1. Anchoring. All new construction and substantial improvements shall be designed, modified, constructed and adequately anchored to prevent flotation, collapse or lateral movement of the structure; all manufactured homes must likewise be anchored to prevent flotation, collapse or lateral movement.
 2. Construction Materials and Methods. All new construction and substantial improvements shall be constructed with materials and utilize equipment resistant to flood damage and use methods and practices that minimize flood damage, including waterproofing, watertight construction, use of substantially impermeable materials and other construction techniques.
 3. Mechanical and Electrical Utilities. Electrical, heating, ventilation, plumbing, and other service facilities shall be designed, constructed and/or otherwise elevated or located to prevent water from entering or accumulating within the components during flooding.
10. All project activities shall utilize measures to avoid or minimize disrupting wildlife and bird migration, or subsistence activities including fishing, trapping, waterfowl hunting, egg gathering and caribou/moose hunting. The permittee will ensure reasonable access to subsistence users to subsistence resources.
 11. Project equipment/vehicle servicing and fueling operations are prohibited within 100 feet of any surface water body, including any rivers, drainage channels, sloughs and lakes.
Equipment and vehicles are to be maintained to eliminate or minimize any fuel spills and fluid leaks. Equipment and vehicles must be monitored prior to use for hydraulic leaks. If equipment is in continuous use, it shall be inspected daily for hydraulic leaks.
Project equipment shall not be abandoned.
 12. CITY shall immediately notify the borough (at least within 24 hours) of any change in the project plans and seek modification of the permit. CITY shall suspend uses until

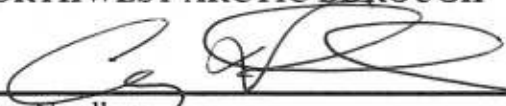


approval is given by the Planning Director/Title 9 Administrator. If the proposed action(s) constitutes an emergency, CITY shall comply with 9.16.040 for emergency actions and shall make reasonable efforts to conduct modified uses in a manner that avoids or minimizes significant harm to the environment, consistent with the need to protect property and human life.

13. Access by Borough personnel and their agents. Authorized personnel and/or their agents of the Northwest Arctic Borough when on official business and displaying proper identification shall be allowed access to the sites without interference. Borough personnel and/or agents may conduct scheduled or unscheduled inspections or tests to determine compliance with this permit or respond to emergency situations. The Borough may inspect the properties up to 5-years after the permit expires for compliance checking and inspections.
14. At the completion of the project, the permittee shall file a written report with the Borough Planning Department describing the following:
 - a. A complete report of any fuel or other hazardous substances discharges and clean-up activities completed,
 - b. Other matters as reasonably required by the Administrator/NAB Planning Director.
15. This permit will expire on December 31, 2024, unless revoked by the Title 9 Administrator and/or CITY.

Permit Approval

NORTHWEST ARCTIC BOROUGH



Clay Nordlum,
Planning Director/Title 9 Administrator

October 10, 2022

Date

CC: Ambler Traditional Council, NANA Regional Corporation, Maniilaq Association, AVEC, ANTHC

Posted at: www.nwabor.org