Spill Contingency Plan

Hamlet of Aklavik

Section 1.8

There is 1 hazardous materials storage areas in the Hamlet of Aklavik, Table 1.2 presents a list of hazardous materials on-site, the type of storage container, the average and maximum quantities stored and their storage location.

Table 1.2: List of hazardous materials stored on-site, type of storage container, the normal and maximum storage quantities, and storage locations.

Material	Storage Container	Average On-site	Maximum on-site	Storage Location and uses
Waste oil	Plastic reinforced tote	25 lt	100 lt	Stored at solid waste site no uses currently waste

Section 1.9 **Preventative Measures**

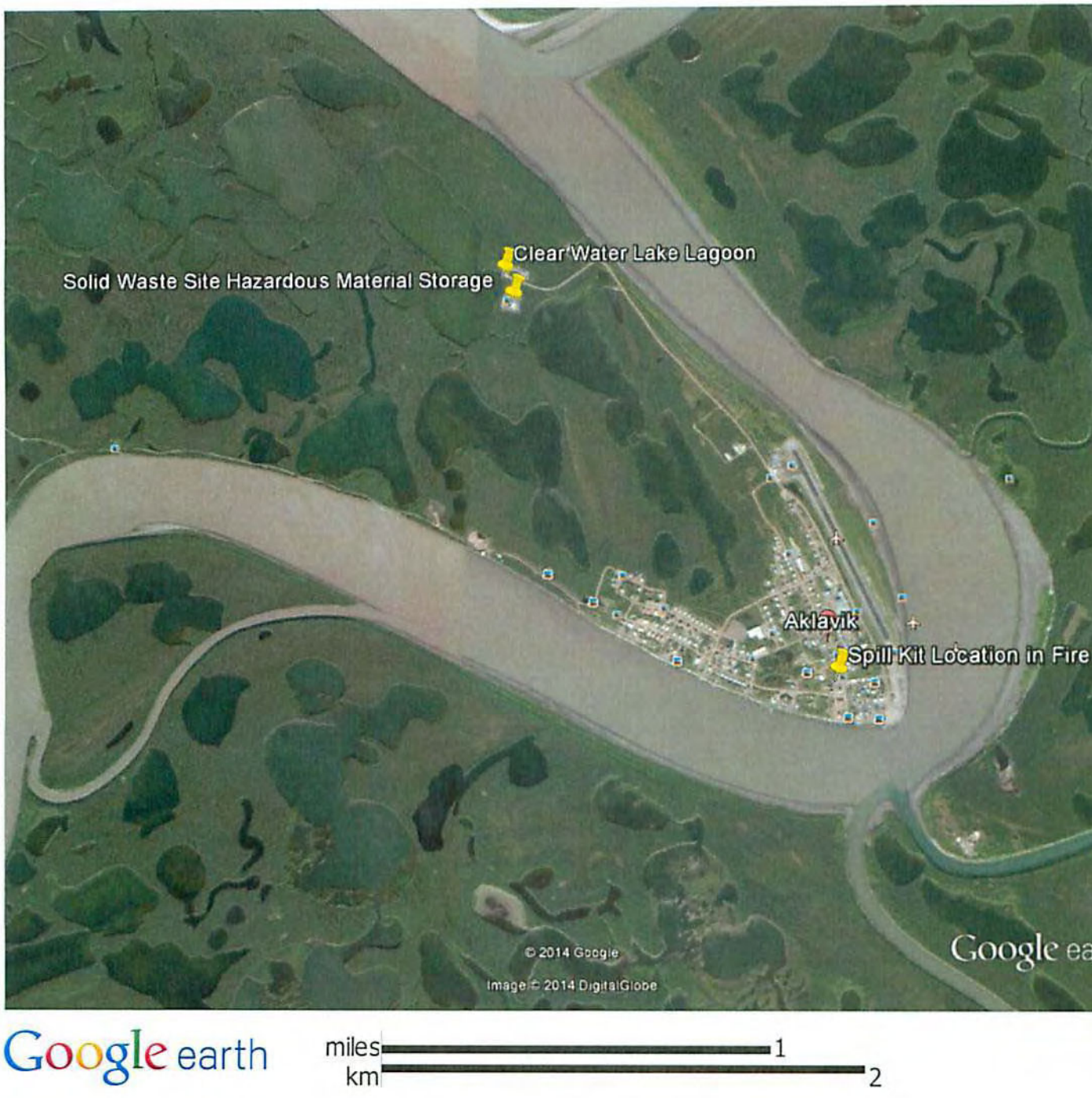
Planning for an emergency situation is imperative. Due to the nature of the materials stored in the Hamlet of Aklavik facilities, adequate training of staff is critical. The storage areas for hazardous materials are to be lined with impermeable liners and bermed with 110% containment. Planking can be used to protect the liner from the fuel drums and cylinders.

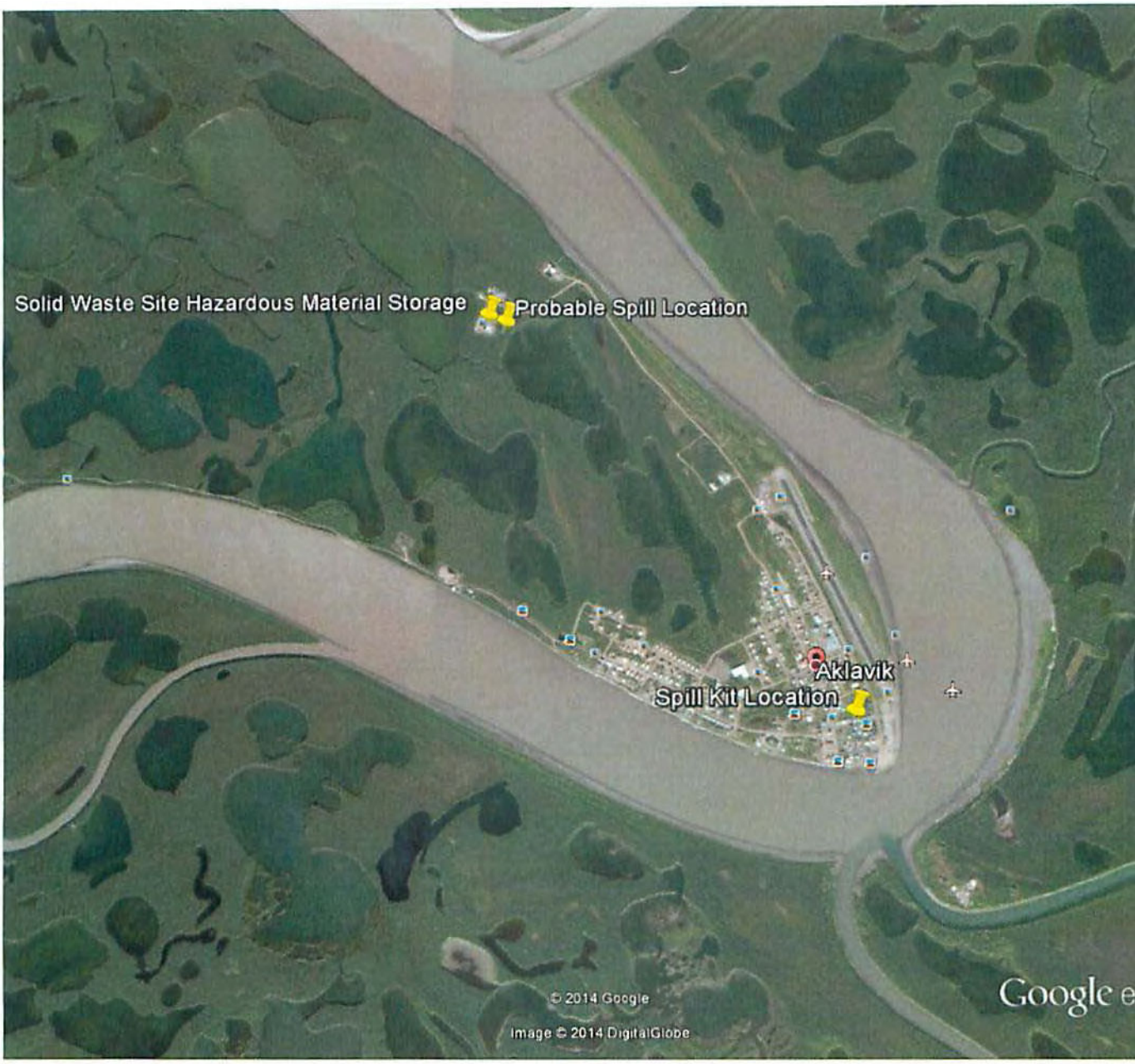
The spill kit is located in the 4 bay garage located in the centre of the community, the contents of the spill kit is part of section 4 “resource Inventory” for details on spill kit contents. The Hamlet of Aklavik Foreman conducts monthly visual inspections to check for leaks or damage to the storage containers, as well as for stained and discolored solid around the storage area and any dead equipment or vehicles also located at the solid waste site.

1.10 **Maps**

1.10.1 Building, Roads, Airstrips and water Bodies

1.10.2 **Storage Locations of each Hazards Material and Spill Kit**





Google earth

miles 1
km 2

Action Plan

3.1 Potential spill sizes and sources

In this section the potential spill event and spill volume are presented for the primary hazardous materials stored in the Hamlet of Aklavik facilities. The most likely spill discharge volume is indicated and the spill cleanup procedures will focus on spills of this quantity. A worst case scenario is also presented.

3.1.1 Sewage Spills from Trucks

Sewage holding tanks could fail from hairline cracks, corrosion and collision or from wear and tear due to the environment**.** Routine inspections consist of looking for sewage coming out of the tanks from crack or failure of the tank wall. Owners should visually inspect their tanks several times a year. Failure of a Sewage Truck or any equipment used while pumping sewage into the truck from a tank or out of the truck to the sewage disposal facility can also be prevented by routine inspections by the owner of all equipment and connections. The Hamlet is responsible of cleaning in the event of a spill. The Hamlet of Aklavik does not own any sewage trucks ourselves as services are contracted to K&D Contracting who has 2 sewage trucks, one has the capacity of 10,000 lts. With the other holding 12,000 lts., which means that in the event of a spill, the spill is likely to be under 12,000 lts. The maximum Truck Capacity.

3.1.2 Sewage spills from the Sewage Disposal Facility

The truck turn-around pad and sewage discharge chute associated with sewage disposal facility structures, and drainage courses are inspected on an annual basis by the Hamlet Forman. In addition, during the summer months the integrity of the structures is visually checked by the Hamlet staff. In the event of a spill, the spill is likely to be under the capacity of the sewage treatment facility which is 435,000 m3.

3.1.3 Spills from Fuel Storage

Many buildings within the Hamlet have fuel storage for home and building heating. There could be minor leaking or large punctures from drum or tank in/outside fuel storage areas. Piping failure is also a source of spills from fuel storage tanks. In the event of a spill at a privately owned structure, owners are responsible for the cleaning of the spill, unless the spill threatens a special area like the school. Should this happen, the Hamlet's response will be to protect the special area. The discharge of the spill is likely to be under 10 lts/tank and in the worst case scenario the spill will be from the full fuel storage tank.

3.1.4 Fuel spill from motorized equipment

Fuel spills can occur when overfilling motorized equipment, spills can also come from drum or hose while filling the motorized equipment, from drum in/outside the storage area. Fuel spills from accidents involving personal vehicles and fuel carriers will be addressed as they pertain to special areas. Clean up will be the responsibility of the individuals or organizations involved. Regular maintenance and oil checks of all motorized equipment are also undertaken to avoid preventable leaks. The discharge of the spill is likely to be less than 10 liters.

3.1.5 **Propane spill**

Propane is extremely volatile and is the most flammable material stored on site, thus the Fire Department should be the first responder in all cases. All non-responders must be kept well away from the area.

Propane spill can occur when the cylinder has a leak in or outside fuel storages area, when propane lines not properly connected to equipment (i.e. Kitchen stove, dryer). The complete volume of the cylinder will be released if a leak develops; therefore safety during emergency response to a propane spill is of the utmost concern.

3.1.6 **Waste Oil or Lubricating Oil Spill**

Waste Oils or Lubricating oil spill could come from a variety of sources including new supplies but mainly from waste oils stored in drums that are leaking. The discharge of the spill is likely to be under 10 l/drum. In the worst case scenario the complete content of the drum will spill.

4. Resource Inventory

4.1 **On-Site Resources**

Spill kits are indicated in figure 1.6. The contents are described below. In addition, earth moving and other equipment located in the Hamlet of Aklavik is also listed below.

4.1.1 **Contents of Spill Kits**

Description for 55 Gallon Drum Spill Kit - Oil Only

The Oil Only 55 Gallon Drum can be easily opened and closed for a fast response to a medium sized spill of oil based materials. Drum meets UN specifications.
Contents:

- (50) - 15" x 19" Pads
- (4) - 3" x 12' SOCs
- (8) - 17" x 19" Pillows
- (1) - Pair Nitrile Gloves
- (5) - Disposal Bags
- Goggles
- Emergency Response Handbook

4.1.2 **Earth Moving and other Equipment**

Hamlet owned equipment includes: Kamatso Loader, Champion Grader.

Equipment owned by K&D Contracting: D6 dozer, D8 Dozer, 2 Cat Loaders, 3 Track Back hoes of various sizes, 2 tandem axle dump trucks.

4.1.3 **Tool Kit**

Hamlet owned hand tools include; 4 shovels, 6 rakes, 1 wheel barrel, 4 ea PPE for staff, 4 ea protective Tyvek coveralls, 4 ea hard hats, Safety Glasses, work gloves, ear plugs, 2 first aid kits. Also have fully

5. **Training**

Training will be comprised of the following:

Foreman and Heavy Equipment operator currently have first aid, WHIMIS, and Dangerous Goods Handling and Transportation. Also through our fire department we are currently in a membership drive to get more volunteers to join, once we have enough members we will bring in a trainer to train new members on Fire truck operations, handling of dangerous goods, first responder training. We will continue to provide any and all staff or volunteers with training to ensure all are current and up to date on all required safety and hazardous material handling as well as first aid, CPR and other important training components that are required but not mentioned here.