

CIAP WEAR Trip Report
Shungnak (population 294)
July 7, 2014



Alaska Department of Environmental Conservation (ADEC) Solid Waste Program (Sandra Woods and Sarah Durand) conducted a Coastal Impact Assistance Program (CIAP), Waste Erosion Assessment and Review (WEAR) site visit for Shungnak on July 7, 2014. James Kommack, the Transportation Coordinator and Kathy Custer, IGAP Coordinator participated in the site visit. The following narrative is a brief description of our findings during the July inspection.

WEAR Sites

- **Landfill, 66.880211/-157.168657 (Active)** – This unpermitted landfill is operated by the City of Shungnak and has waste spread throughout the 2.25 acre site. According to local knowledge, this site has been in use since the 1970's and has exceeded its designed lifespan. There are large areas of ponded water in the back of the landfill which continue outside the landfill fence into the neighboring property owner's land. The ponds are full of solid waste. The landfill is self-haul and site access is unrestricted all hours of the day. The perimeter is fenced on three sides leaving a wide-open entrance. Shungnak is in the process of having a road built to where they want to build a new landfill. They do not yet have funding to build the new landfill or to close the old landfill. The site contains municipal waste and construction and demolition debris. This site is 1,800 feet east of the Kobuk River and located 2,850 feet from the airstrip.



- **Native Store Tank Farm, 66.887937/-157.140247 (Active)** – This tank farm was constructed sometime during the mid-70's and consists of eight vertical tanks of 5,000 gallon capacity each and one horizontal tank that was placed there after 2009. The tanks are used for bulk storage gasoline and stove oil. They are located mid-town next to the Native Store and are across the road from the AVEC power plant. The Native Store tank farm is surrounded by a fence and earthen berm containment; no liner was observed. The fueling station is housed in a small plywood shed outside the fence enclosure on the road in front of the Native Store. The tanks are 860 feet from the Kobuk River.



- **AVEC Tank Farm, 66.888282/-157.139667 (Active)** – This tank farm is owned and operated by AVEC for the power plant. There are 14 vertical tanks at this site with a total fuel capacity of 115,000 gallons of diesel. They were originally placed in Shungnak in 1970. They are contained in a lined, earthen berm containment on wooden planks. The containment area is not fenced and is publicly accessible from the adjacent road. Directly south of the AVEC tank farm are two green vertical tanks that are owned by the Native Store. These two tanks are not connected to anything and were not in use during the inspection. The tanks are 770 feet from the Kobuk River.



- **School Tank Farm, 66.889297/-157.135444 (Active)** – There are three horizontal tanks located behind the Shungnak School that are owned by the Northwest Arctic Borough School District and used to provide diesel to power the school generators. The tanks can contain 10,300 gallons for a total capacity of 30,900 gallons of diesel. Each tank is supported by timbers within a fenced, but unlocked area. There was no visible secondary containment system. It is estimated the tanks have been in place since the 1980s. The three horizontal tanks are located 215 feet from the Kobuk River.



- **School Vertical Tanks, 66.889017/-157.135094 (Abandoned)** – This site contains two vertical fuel tanks located behind the Shungnak School that were owned by the Northwest Arctic Borough School District. Their current owner is unknown. They were used to provide diesel to power the school generators along with the current school tank farm's three horizontal tanks which are 70 feet away. These tanks had a total capacity of 10,300 gallons of diesel together. The tanks are supported by timbers and appear to still be connected to piping which leads to the river. The site is partially fenced, but it is in broken in several places. The site dates back to 1976. This site is 170 feet from the Kobuk River.

