

**Appendix C**  
**Fact Sheets on Alaska's**  
**Medical Waste Incinerators**

## **Fact Sheet: Yukon-Kuskokwim Regional Hospital, medical waste**

Location: Bethel, AK  
 Population: 5,471

### Notes on the area:

Bethel is a hub city for small communities in Interior Alaska. It houses a large Native hospital run by the Yukon Kuskokwim Health Corporation (YKHC). YKHC also operates a number of village clinics.

### Notes on the facility:

YKHC submitted an application for a Title V permit, classifying them as a medical waste incinerator, in January 2002. When the permit is complete, they will be the only MWI in the state. They are operating in compliance with federal regulations, even though the state has not issued their permit yet. It is expected that 50 - 60 villages will fly their red - bag waste here to be incinerated. This will cover most of the clinics in Interior.

### Notes on the incinerator:

**Model:** Shenandoah P25-M1. Oil-fired. Shenandoah are crematoria - focused incinerators, two chambered modulars, where waste is fed in batches. Permit shows lower burner operates at lower temperature than upper burner, indicating SA. ACAT will assume **MOD SA, UNC**.

**Install:** Built before June 1996. Does not come under federal regulations adopted by Alaska (only applies to MWIs built after 1996), but needs to comply with EPA, and will need to comply with DEC after Alaska adopts federal regulations that apply to "existing" MWIs.

**Capacity:** Rated at 500 lbs per 10-hr day for burning red bag waste = 78 tpy at 85%. According to DEC, they burn 5 - 10 batches a week, with each batch weighing 50 - 75 lbs: about 7 - 20 tpy. ACAT assessment: **7 - 20 tpy**.

**Operation:** Batch fed, each batch running 1.5 hours. After preheating, incinerator is charged with waste and burn cycle begins, running 1.5 hours. Light comes on when it is ready for next batch.

**APCD:** After burner on the exhaust.

**Dioxin control:** Secondary chamber acts to help control dioxin, if it is a MOD SA.

**EF:** Use EF for medical waste, MOD SA, ESP, dual chambers, under 200 lbs/hr.

**Ash disposal:** Not known. Bethel landfill does not have a permit for waste ash.

### ACAT ASSESSMENT:

<i>Combustor</i>	<i>Waste (tpy)</i>	<i>EF range (ug/ton)</i>	<i>Dioxins produced (ug/yr)</i>
MOD SA, UNC	7 - 20 tpy	Air: 525-1860 ug/ton	3675 - 37,200 ug/yr
under 200 lb/hr		Ash: 920 ug/ton	6440 - 18,400 ug/yr
		<b>Total</b>	<b>10,115 - 55,600 ug/yr</b>
			<b>= 0.010 - 0.056 grams/yr</b>

### Source Testing:

This is the only incinerator still operating that has had a source test for dioxin. The test was done in October 2001.

<i>Test run</i>	<i>Pounds burned</i>	<i>Total dioxins/furans</i>	<i>Approx TEQ</i>
1	107 lbs	133 ng/dscm	2 ng/dscm
2	85 lbs	6 ng/dscm	0.09 ng/dscm
3	99 lbs	235.3 ng/dscm	3.5 ng/dscm
		<b>Average: 125 ng/dscm</b>	<b>1.88 ng/dscm</b>

Note the huge variance in dioxins release in test runs 2 and 3, even though almost the same amount of waste was burned. *Type* of waste (% of PVC in the waste) probably varied. Federal regulations will allow small rural MWIs to release up to 800 ng/dscm -- far more than YKHC is emitting -- but TEQ will have to stay under 2.3 ng/dscm.

\*ACSI is Advanced Combustion Incineration Systems

**Fact Sheet: Norton Sound Regional Hospital, medical waste**

Location: Nome, AK  
 Population: 3,615

Notes on the area:

Nome is located on the coast in Northwest Alaska. It serves as a “hub” city for several small communities; some connected by a minimal road system, others only connected by plane or boat. It is known that Norton Sound Regional has an incinerator. From the Small Direct Waste Combustor Database, it is known that a specific model of incinerator is in Nome; ACAT assumes that it is the one at the hospital.

Notes on the incinerator:

Model: ACSI\* CA-100. Dual chambered MOD SA with APCD.  
 Contact: Mike Milnes (360 - 676 - 6005) (manufacturers agent)  
 Weight: 4,100 lbs  
 Cost (FOB Anchorage): \$27, 136  
 Accessories needed: Concrete pad, utility hookup, transfer station.

Capacity: Rated at 65 - 125 lb/hr = maximum 285 - 548 tpy at 24 hr/day.  
 If operated at 100 lb/hr for 12 - 36 hours/wk, capacity would be:  
 30 - 90 tpy. However, we note that actual figures from the Yukon-Kuskokwim Hospital in Bethel only burns 7 - 20 tpy, collecting from 50 - 60 villages. It is unlikely that Nome would exceed this level, even if it collects from some communities around it. ACAT assessment bases the amount of medical waste burned in Nome at 7 - 20 tpy.

Maintenance: Ash removal as needed  
 Fuel: Diesel, 40 gallons/batch or 11.4 gallons/hr  
 Energy Recovery Available? Yes  
 Operation: Starved air model with two chambers, fed in batches. Each batch takes 6 - 8 hours to burn. Temperatures are 2500 - 2700 F in the primary chamber, and 2900 F in the secondary.  
 APCD: Yes. Type not mentioned. Assume ESP.  
 Meets Air Quality Opacity Standards? Likely meets.  
 Dioxin control: Secondary chamber acts to reduce dioxin; ESP may or may not help.  
 Do not know if it comes with gas control.  
 Can burn used oil? Yes  
 Can burn sewage sludge? Not recommended  
 Can burn medical waste? Yes  
 EF: Use the EF for medical waste for MOD SA, ESP, dual chambers, under 200 lb/hr = 525 - 1860 ug of dioxin/ton of waste.  
 Ash disposal: Not known.

ACAT ASSESSMENT:

Combustor	Waste (tpy)	EF range (ug/ton)	Dioxins produced (ug/yr)
MOD SA, ESP	7 - 20 tpy	Air: 45 - 525 ug/ton	315 - 3675 ug/yr
under 200 lb		Ash: 9 20 ug/ton	6440 - 18,400 ug/yr
		<b>Total</b>	<b>6755 - 22,075 ug/yr</b>
			<b>=0.007 - 0.022 grams/yr</b>

\*ACSI is Advanced Combustion Incineration Systems

## **Fact Sheet: Cordova Community Medical Center, medical waste**

Location: Cordova, AK

Population: 2,435

### Notes on the area:

Cordova is a remote town in eastern Prince William Sound. It does not serve as a hub to any communities. It's economy is based on summer commercial fishing for salmon, with some winter fishing for cod and pollock. The population increases significantly in the summer. The hospital has an attached medical clinic and nursing home.

### Notes on the incinerator:

Model: ACSI\* CA-150. Dual chambered MOD SA with APCD.

Contact: Mike Milnes (360 - 676 - 6005) (manufacturers agent)

Weight: 6,200 lbs

Cost (FOB Anchorage): \$31,806

Accessories needed: Concrete pad, utility hookup, transfer station.

Capacity: Rated at 100 - 175 lb/hr = maximum 438 - 767 tpy at 24 hr/day.  
If operated at 150 lb/hr 12 - 36 hr/wk for 52 weeks/yr:  
about 50 - 150 tons of medical waste burned each year. However, ACAT notes that Cordova is an isolated community with no neighboring communities that could contribute to it's waste load. It is unlikely that a community of 2400 people will generate 50 - 150 tons of medical waste per year. ACAT assesses Cordova's medical waste as no more than the YKHC: **7 - 20 tpy.**

Maintenance: Ash removal as needed

Fuel: Diesel, 40 gallons/batch or 11.4 gallons/hr

Can burn used oil? Yes

Energy Recovery Available? Yes

Operation: Starved air model with two chambers, fed in batches. Each batch takes 6 - 8 hours to burn. Temperatures are 2500 - 2700 F in the primary chamber, and 3000 F in the secondary.

APCD: Yes. Type not mentioned. Assumed ESP.

Meets Air Quality Opacity Standards? Likely meets.

Dioxin control: Secondary chamber acts to reduce dioxin; ESP may or may not help.  
Do not know if it comes with gas control.

Can burn used oil? Yes

Can burn sewage sludge? Not recommended

Can burn medical waste? Yes

EF: Use EF for medical waste, MOD SA, ESP, dual chambers, under 200 lbs/hr.

Ash disposal: Not known.

### ACAT ASSESSMENT:

<i>Combustor</i>	<i>Waste (tpy)</i>	<i>EF range (ug/ton)</i>	<i>Dioxins produced (ug/yr)</i>
MOD SA, ESP under 200 lb	7 - 20 tpy	Air: 45 - 525 ug/ton Ash: 9 20 ug/ton	315 - 3675 ug/yr 6440 - 18,400 ug/yr
		<b>Total</b>	<b>6755 - 22,075 ug/yr</b> <b>=0.007 - 0.022 grams/yr</b>

## Fact Sheet: University of Fairbanks, medical waste

Location: Fairbanks, AK  
Population: 31,697  
DEC Air Permit: 316TVP01 August 9,2000 - August 8, 2005  
SIC code: 8221 University  
UAF contact re incinerator: John Blake, Office of Research Integrity, 206 Eielson  
PO Box 75760 Fairbanks, AK 99775 - 7560.

### Notes on the area:

Fairbanks is the second largest town in Alaska. It is located at the northern end of the road system, and is the closes large town for many communities in Interior Alaska.

### Notes on the facility:

The university is science-based, specializing in geology, fisheries, and arctic animals research. The incinerator is housed in the Arctic Health Research Center at UAF. Other equipment listed in the permit as air pollution sources includes: 2 coal and 2 oil - fired boilers in the power plant; 1 oil-fired boiler and 3 diesel generators at the Arctic Health Research Center.

Air emissions allowed under permit: ammonia, CO, Pb, NO<sub>x</sub>, PM<sub>10</sub>, SO<sub>x</sub>, VOC, As, asbestos, benzene, Be, Hg, cyanide, Cd, chloroform, formaldehyde, HCl, chrome, Mn, methanol, methylchloroform, methyl ethyl ketone, methyl isobutyl ketone, xylenes, toluene, trichlorofluoromethane, trifluorobromomethane, chlorodifluoromethane, hydrogen fluoride.

Pollutant	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO
Potential to emit (tpy)	17	858	637	212

### Notes on the incinerator:

Model: Controlled Air Incinerator CA-500. Dual chambered MOD SA with APCD.  
Incinerator built by: Econo - therm Energy Systems Corporation, 655 Denson Road, Boaz, AL 35957  
Installation date: 1982.

Capacity: DEC permit lists capacity as 50 lb/hr.  
In a letter to ACAT, John Blake describes the UAF incinerator as burning 300 - 400 lbs of waste per week. At 300 - 400 lbs/wk for 52 weeks: 8 - 10 tpy

Operation: Starved air model with two chambers, fed in batches. It operates 60 hours per month according to UAF. It burns biomedical and biohazardous waste, including blood tubes, syringes, needles, spent pharmaceuticals, research materials, animal carcasses, samples obtained from animals during research or in the course of teaching, and small amounts of the radioisotopes <sup>3</sup>H (tritium) and <sup>14</sup>C (carbon 14). While some of this is exempt pathological waste any blood related material is considered medical waste, and, if it constitutes more than 10% by weight of the total burned, this incinerator should be regulated as a medical waste, rather than solid waste, incinerator.

APCD: Not known.

Dioxin control: Secondary chamber acts to reduce dioxin. If emissions exceed 160 mg/yr, records must be kept.

EF: Use the EF for hospital waste, MOD SA, UNC, dual chambers, under 200 lb/hr. Because the material is all biomedical related, ACAT assesses it as a medical incinerator pertaining to dioxin release.

Ash disposal: Not known.

### ACAT ASSESSMENT:

Combustor	Waste (tpy)	EF range (ug/ton)	Dioxins produced (ug/yr)
MOD SA, UNC under 200 lb/hr	8- 10 tpy	Air: 525 - 1860 ug/ton	4200 - 18,600 ug/ton
		Ash: 920 ug/ton	7,360 - 9,200 ug/ton
		<b>Total</b>	<b>11,560 - 27,800 ug/ton</b>

## **Fact Sheet: Commercial Incinerators, medical waste portion**

Location: Anchorage, Wasilla, Nikiski, Juneau, AK

Anchorage	260,000	Entech
MatSu Borough (Wasilla and surrounding areas)	56,000	Safety Waste
Kenai Borough (Nikisiki and surrounding areas)	49,000	Envirotech
Juneau	30,000	Capitol Waste

### Notes on the area:

Anchorage has 3 large hospitals. The Wasilla area has 2 hospitals. Kenai area has at least 3 hospitals. Juneau has only one large hospital. All of the areas have dozens of medical, dental, and vet clinics in the surrounding area.

### Notes on the facilities:

All of the areas are served by incinerators, but there are no incinerators that claim to take more than 10% medical waste. Entech claims to burn only pathological (not medical) waste. Safety Waste is applying for a permit and requesting that she be able to burn 10% medical waste (will not need MWI permit). Envirotech applied for permit and has not been definite on whether they will burn any medical waste (if they do, they are expected to burn less than 10% to avoid MWI classification). Capitol Waste burns less than 10% medical waste.

### Notes on the incinerator:

Details on the incinerators are reviewed in the Solid Waste Fact Sheets.

### ACAT ASSESSMENT:

<i>Combustor</i>	<i>Waste (tpy)</i>	<i>EF range (ug/ton)</i>	<i>Dioxins produced (ug/yr)</i>
Entech MOD SA, UNC under 200 lb/hr for red bag	30 tpy	Air: 525 - 1860 ug/ton Ash: 920 ug/ton <b>MWI Total</b>	15,750-55,800 ug/yr 27,600 ug <b>43,350-83,400 ug/yr</b>
Envirotech:MOD SA, UNC over 200 lb/hr for red bag	365 tpy	Air: 525-1680 ug/ton Ash: 920 ug/ton <b>MWI Total</b>	191,625-613,200 ug 335,800 ug <b>527,425-949,000 ug/yr</b>
SafetyWaste: MOD SA, UNC under 200 lb/hr for red bag	40 tpy	Air: 525 - 1860 ug/ton Ash: 920 ug/ton <b>MWI Total</b>	21,000-74,400 ug 36,800 ug <b>57,800-111,200 ug/yr</b>
USA Waste: MOD SA, H-ESP over 200 lb/hr for red bag	2 tpy	Air: 45 - 525 ug/ton Ash: 920 <b>MWI Total</b>	90 - 1050 ug 1840 ug <b>1930 - 2890 ug/yr</b>
Petersburg: MOD SA, ESP under 200 lb/hr for red bag	10 - 15 tpy	Air: 45 - 525 ug/ton Ash: 920 ug/ton <b>MWI Total</b>	450 - 7875 ug 9200 - 13,800 ug <b>9650 - 21,675 ug/yr</b>

**Total estimated dioxins produced by commercial incinerators, due to medical waste:  
640,155 - 1,168,165 ug/yr = 0.64 - 1.17 grams/yr**

*\*ACSI is Advanced Combustion Incineration Systems*

**Appendix D**  
**Alaskan Community Database**

<b>Town</b>	<b>Landfill Class</b>	<b>Landfill Operator</b>	<b>Clinic</b>	<b>Clinic Operator</b>	<b>Incinerator?</b>
Adak	2	Aleut Corp	Adak Medical		
Afognak	3	Koncor Corp	no		
Akhiok	3	City	Akhiok Health		
Akhiachak	3	City	Akhiachak Health		
Akiak	3	None	Edith Kawegaley Memorial	YKHC	
Akutan	3	city, Trident	Anesia Kudrin Clinic	city, EAT	yes
Alekanuk			Alekanuk Health	YKHC	burn box
Bethel	2	city	Yukon Kuskokwim Hosp Bethel Family Clinic	YKHC PHS	
Bettles	3	city	no		
Big Delta			no		
Big Lake		transfer station	no		
Birch Creek	3	village	Birch Creek Clinic	CATG	
Brevig Mission	3	city	Brevig Mission Clinic	NSHC	
Buckland	3	city	Buckland Health	Maniilaq	
Butte		transfer station	no		
Cantwell		transfer station	Cantwell Health	CRNA	
Central	2		no		
Chalkyitsik	3	village	Chalkyitsik Health	CATG	
Chase			no		
Chefornak	2	city	Chefornak Health	YKHC	
Chenega Bay	3	village	Chenega Bay Health	Chugachmiut	burn box
Chevak	2	city	Chevak Health	YKHC	
Chickaloon		transfer station	no		
Chicken			no		
Chignik	3	city, Chignik Pride Fish	Chignik Bay Health	BBAHC	burn box
Chignik Lagoon	3	village	Chignik Lagoon Health	BBAHC	landfill, incin
Chignik Lake	3	village	Chignik Lake Health	BBAHC	landfill, incin
Chiniak			Chiniak EMS		
Chistochina	3	village	Chistochina Health	Mt Sanford Tribal	
Chitina	2	private	Chitina Health	Village Council	pursuing
Chuathbaluk	3	city	Chuathbaluk Health	YKHC	
Circle	2	Civic Community Assn	Circle Health	CATG	
Circle Hot Springs	3		no		
Clam Gulch		Pen Sanitation	no		
Clarke's Point	3	city	Clarke's Point Health	BBAHC	pursuing
Coffman Cove		city incinerator burns refuse, hauls ash to Thorne Bay			
Cold Bay	3	city, USAF	Anna Livingstone Clinic Port Moller Clinic (seasonal)	city	
Coldfoot			no		
Cooper Landing		transfer station	no		
Copper Center	3	private	Copper River Health	CRNA	yes
Cordova	2	city	Cordova Community Ilanka Health	city village	hosp incinerator
Council	3		no		
Craig	3	Klawock	Seaview Medical	private	
Cube Cove	3	Atikon Forest Products	no — log camp		

<b>Town</b>	<b>Landfill Class</b>	<b>Landfill Operator</b>	<b>Clinic</b>	<b>Clinic Operator</b>	<b>Incinerator?</b>
Deering	3	city	Deering Health	Maniilaq	pursuing
Delta Junction	3	city	Delta Junction Family	private	
Dillingham	2	city	Kanakanak Hospital	PHS	
			Dillingham Med. Clinic	PHS	
			Dillingham Health Center	BBAHC	
Diomedes	3	city	Diomedes Health	village	pursuing
			individuals currently burn their combustibles		
Dot Lake	3	village	Dot Lake Health	TCC	burn box
Dry Creek	3	Dry Creek Community	no		
Eagle	3	village	Eagle Village Health	TCC	
Edna Bay			Edna Bay Health	private	
Eek	3	city	Eek Health	YKHC	
Egegik	3	city	Egegik Health	BBAHC	
			Int'l Seafoods		
Eklutna	Freedom Refuse hauls to Anchorage		Eklutna Health	Southcentral Foundation	
Ekuk	3		no		
Ekwok	3	city	Ekwok Health	BBAHC	
Elfin Cove			no		
Elim	3	city	Elim Health	NSHC	burn box
Emmonak	3	city	Emmonak Health	YKHC	
Evansville	3	city of Bettles	Frank Tobuk Sr. Health	TCC	
False Pass	3	city	False Pass Health	EAT; borough	
Fort Yukon	3	city, military	Yukon Flats Health	CATG	landfill incin
Gakona	private — haul to Glenallen		Gakona Health	CRNA	
Galena	3	city	Galena Community Health	TCC	
Gambell	3	city	Bessie A Kaningok Clinic	NSHC	
Girdwood	transfer station		no		
Glacier View	transfer station		no		
Glenallen		private	Cross Road Medical	private	
Golovin	3	city	Golovin Health	NSHC	
Goodnews Bay	3	city	Goodnews Bay Health	BBAHC	burn box
Grayling	3	city	Grayling Health	YKHC	
Gulkana	private — haul to Glenallen		Gulkana Community	CRNA	
Gustavus	3	Community nonprofit; Natl Parks	Gustavus Community	Gustavus Community Assoc	
Haines	3	private	Haines Medical	SEARHC	
Halibut Cove			no		
Healy		private	Healy Clinic	private	
Hobart Bay	3	private	no — log camp		
Hollis		Klawock	no		
Holy Cross	3	city	Theresa Dementieff Clinic	YKHC	
Homer	2	borough	South Peninsula Hospital	Borough	
Hoonah	3	city	Hoonah Medical	Hoonah Indian Assoc	
Hooper Bay	3	city	Hooper Bay Health	YKHC	
Hope	transfer station		no		
Hughes	3	city	Hughes Health	TCC	yes, also recycle
Huslia	3	city	Huslia Health	TCC	
Hydaburg	3	city	Hydaburg Health	SEARHC	
		Haida Corp			

<b>Town</b>	<b>Landfill Class</b>	<b>Landfill Operator</b>	<b>Clinic</b>	<b>Clinic Operator</b>	<b>Incinerator?</b>
Hyder			Hyder Health	SEARHC	
Igiugig	3	village	Igiugig Health	BBAHC	
Iliamna	3	village	Iliamna Health	BBAHC	
Ivanof Bay	3	village	Ivanof Health	BBAHC	
Jakalof Bay			no		
Kake	3	city	Kake Health	SEARHC	yes
Kaktovik	3	borough	Kaktovik Health	borough	
Kaltag	3	city	Kaltag Health	TCC	
Karluk	3	village	Karluk Health	village	
Kasaan			Kasaan Health	SEARHC	
Kasigluk	3	village	Kasigluk Health	YKHC	
Kenai		transfer station	Dena'ina Health	village	
Kenny Lake		transfer station	no		
Ketchikan			Ketchikan Gen. Hospital	private	landfill, incin
			Ketch Tribal Health Clinic	Ketch. Indian Corp	
			Gateway Ctr for Human Svs		
			USCG Ketch Dispensary	USCG	
Kiana	3	city	Kiana Health	Maniilaq	
King Cove	3	city	King Cove Medical	City, EAT	
King Island			no information		
King Salmon	2	borough USAF	King Salmon Health	BBAHC	yes
Kipnuk	3	village	Kipnuk Health	YKHC	
Kivalina	3	city	Kivalina Health	Maniilaq	
Klawock	3	city	Alicia Roberts Medical	SEARHC	pursuing
Klukwan	3	village	Klukwan Health	SEARHC	
Kobuk	3	city	Kobuk Health	Maniilaq	burn box
Kodiak	1	borough	Providence, Kodiak	borough	landfill incin
			Alutiiq Health Clinic KANA		
			USCG Support Center	USCG	
Kokhanok			Kokhanok Health	BBAHC	
Koliganek	3	village	Koliganek Health	BBAHC	
Kongiganak	3	village	Lillian E Jimmy Health Clinic	YKHC	
Kotlik	3	city	Kotlik Health	YKHC	yes
Kotzebue	1	city	Maniilaq Health	PHS	
Koyuk	3	city	Koyuk Health	NSHC	
Koyukuk	3	city	Koyukuk Clinic	TCC	
Kupreanof			no		
Kwethluk	3	city	Sarah S Nicholai Clinic	YKHC	yes
Kwigillingok	3	village	Kwigillingok Health	YKHC	
Lake Minchumina	3	FAA	no		
Larsen Bay	3	city	Larsen Bay Clinic	KANA	landfill incin
Levelok	3	village	Levelok Health	BBAHC	
Lime Village	3	village	Lime Village Health Clinic	YKHC	
Lower Kalskag	3	city	Lower Kalskag Clinic	YKHC	
		trash is burned or buried			
Manley Hot Springs	3	Manley Hot Springs Comm Assn	Manley Hot Springs Clinic	TCC	yes
Manokotak	3	city	Manokotak Health	BBAHC	
Marshall	3	city	Theresa Elia Health Clinic	YKHC	burn box
Mary's Igloo			no		

<b>Town</b>	<b>Landfill Class</b>	<b>Landfill Operator</b>	<b>Clinic</b>	<b>Clinic Operator</b>	<b>Incinerator?</b>
McCarthy			no		
McGrath	3	city	McGrath Health	TCC	
McKinley Park			no		
Mekoryuk	3	city	Mekoryuk Health	YKHC	
Mendeltna			no		
Mentasta Lake			Mentasta Lk Health Clinic	Mt Sanford Tribal	yes
Metlakatla			Annette Island Family Clinic	Metlakatla Indian Community	yes
Meyer's Chuck			no		
Minto	3	village	Minto Health Clinic	TCC	yes
Moose Pass		transfer station	no		
Mountain Village	3	city	Mt Village Health	YKHC	burn box
Naknek	2	borough	Naknek Health	BBAHC	yes w/ King Salmon
Nanwalek	3	borough	Nanwalek Health	Chugachmiut	burn box
Napakiak	3	city	Napakiak Health	YKHC	
Napaskiak	3	city	Yago Clark Health Clinic	YKHC	
Nelson Lagoon	3	village	Nelson Lagoon Clinic	EAT	yes
Nenana private			Valley Family Health	private	
			Nenana Native Clinic	TCC	
New Stuyahok	3	city	New Stuyahok Clinic	BBAHC	
Newhalen	3	city	Newhalen Health Clinic	BBAHC	
Newtok	3	village	Newtok Health Clinic	YKHC	yes
Nightmute	3	city	Nightmute Health	YKHC	
Nikiski		transfer station	no		
Nikolaevsk		transfer station	no		
Nikolai	3	city	Nikolai Health	TCC	yes
Nikolski			Nikolski Health	APIA	
Ninilchik		transfer station	Ninilchik Health	village	
Noatak	3	village	Noatak Health	Maniilaq	burn box
Nome	2	city	Norton Sound Reg Hosp	NSHC	hosp incin
Nondalton	3	city	Nondalton Health	BBAHC	yes
Noorvik	3	city	Noorvik Health	Maniilaq	
Northway	3	Naabia Niign	Northway Health Clinic	TCC	
Nuiqsut	3	borough	Nuiqsut Health	borough	
Nulato	3	city	Nulato Health	TCC	
Nunam Iqua	3	city	Sheldon Point Health	YKHC	burn box
Nunapitchuk	3	city	Nunapitchuk Health	YKHC	
Old Harbor	3	city	Old Harbor Health	KANA	
Oscarville	3	village	Oscarville Health	YKHC	
Ouzinkie	3	city	Ouzinkie Health	KANA	
Palmer	1	borough	Valley Hospital	private	
Paxson			no		
Pedro Bay	3	village	Pedro Bay Health	BBAHC	burn box
Pelican Bay	3	city	Pelican Bay Health	SEARHC	landfill incin
Perryville			Perryville Health	BBAHC	
Petersburg	3	city	Petersburg Health	city	
Pilot Point	3	city	Pilot Point Health	BBAHC	yes
Pilot Station	3	city	Pilot Station Health	YKHC	
Platinum	3	city	Platinum Health	BBAHC	
Pt Baker			no		
Pt Hope	3	borough	Pt Hope Health	borough	
Pt Lay	3	borough	Pt Lay Health	borough	

<b>Town</b>	<b>Landfill Class</b>	<b>Landfill Operator</b>	<b>Clinic</b>	<b>Clinic Operator</b>	<b>Incinerator?</b>
Port Alexander			no		
Port Alsworth	3		no		
Port Clarence	3	USCG	Port Clarence Medical Staff		
Port Graham	3	borough	Port Graham Health	Chugachmiut	
Port Heiden	3	city	Port Heiden Health	BBAHC	yes
Port Lions	3	city	Port Lions Health	KANA	burn box
Port Protection			no		
Prudhoe Bay	1	Oxbow	no		
Quinhagak	3	city/village	Quinhagak Health	village	
Rampart	3	village	Rampart Health	TCC	
Red Devil	3	village	Red Devil Health	YKHC	burn box
Red Dog Mine					incinerator
Ruby	3	city	Ruby Health	TCC	
Russian Mission	3	city	Russian Mission Health	YKHC	
St. George	3	city	St George Health	village	
St Mary's	3	city	John Afcan Health Clinic	YKHC	
St Michael	3	city	St Michael Health	NSHC	
St. Paul	3	city	St Paul Health	APIA	
Salcha	3	borough	no		
Sand Point	3	city	Sand Point Health	city, EAT	
Savoonga	3	city	Savoonga Health	NSHC	
Saxman			no		
Scammon Bay	3	city	Scammon Bay Health	YKHC	
Selawik	3	city	Selawik Health	Maniilaq	
Seldovia	3	borough	Sedovia Health	Seldovia Native Assoc	
Seward	transfer station		Providence Seward	private	
			Northstar Health Clinic	private	
Shageluk	3	city	Shageluk Health	YKHC	
Shaktoolik	3	city	Shaktoolik Helath	NSHC	
Shemya AFS			no		
Shishmaref	3	city	Katherine M Olanna Clinic	NSHC	
Shungnak	3	city	Shungnak Health	Maniilaq	
Skagway	3	city	Dahl Memorial Clinic	Skagway Med.	landfill incin
Skwentna	3	city	no		
Slana			under construction		
Sleetmute	3	village	destroyed by fire	YKHC	
Soldotna	1	borough	Central Peninsula Hospital	private	
Solomon			no		
South Naknek	3	borough	South Naknek Health	BBAHC	pursuing
		Peter Pan Seafoods			
Stebbins	3	city	Stebbins Health	NSHC	
Stevens Village	3	village	Stevens Village Health	TCC	
Sutton	transfer station		no		
Takotna	3	village	Takotna Health	TCC	
Talkeetna	transfer station		Sunshine Community Health	private	
Tanacross	3	village	Tanacross Health	TCC	burn box
Tanana	3	city	Tanana Health	city	yes, & recycle
Tatitlek	3	village	Tatitlek Health	Chugachmiut	
Teller	3	city	Teller Health	NSHC	
Tenakee Springs			Tenakee Springs Health	SEARHC	
Tetlin	3	village	Tetlin Health	TCC	

<b>Town</b>	<b>Landfill Class</b>	<b>Landfill Operator</b>	<b>Clinic</b>	<b>Clinic Operator</b>	<b>Incinerator?</b>
Thorne Bay	3	city	Thorne Bay Health	city	
Togiak	3	city	Togiak Health	BBAHC	
		North Pacific Processers			
Tok	3	private	Tok Community Health	private	
Toksook Bay	3	city	Toksook Bay Health	YKHC	
Tonsina		private	no		
Tuluksak	3	village	Tuluksak Health	YKHC	
Tuntutuliak	3	village	Kathleen Daniel Clinic	YKHC	
Tununak	3	traditional council	Tununak Health	YKHC	
Twin Hills	3	village	Twin Hills Health	BBAHC	burn box
Tyonek	3	borough	Tyonek Health	village council	
Ugashik	3	village	no		
Unalakleet	3	city	Unalakleet Euksavik Clinic	NSHC	
Unalaska/ Dutch Harbor	1	city	Iliuliuk Family and Health Oonalaska Wellness Center	private APIA	
Upper Kalskag	3	city	Catherine Alexie Health	YKHC	
Valdez	2	city	Valdez Community Health Valdez Native Tribe Clinic	city village council	
Venetie	3	village	Myra Roberts Clinic	CATG	
Wainwright	3	borough	Wainwright Health	borough	
Wales	3	city	Wales Health	NSHC	
Wasilla		private	Matanuska Health Center	private	
White Mountain	3	city	White Mountain Health	NSHC	
Whittier		private	City of Whittier Clinic	city	
Wiseman			Wiseman Health	TCC	
Women's Bay			no		
Wrangell	3	city, private	Wrangell Medical Center Wrangell Health Center	city SEARHC	yes
Yakutat	3	borough	Yakutat Community Health	borough	

APIA = Aleutian/Pribilof Island Association  
 BBAHC = Bristol Bay Area Health Corporation  
 CRNA = Copper River Native Association  
 CATG = Council of Athabaskan Ribal Governments  
 EAT = Eastern Aleutians  
 KANA = Kodiak Area Native Association  
 NSHC = Norton Sound Health Corporation  
 PHS = Public Health Service  
 SEARHC = Southeast Alaska Regional Health Corporation  
 TCC = Tanana Chiefs Council  
 USCG = US Coast Guard  
 YKHC = Yukon Kuskokwim Health Corporation