

2023 Annual Report





Introduction

The Backhaul Alaska Program (BAP) is a statewide backhaul program developed and overseen by the Solid Waste Alaska Taskforce (SWAT). The Solid Waste Alaska Taskforce (SWAT) serves as the BAP executive committee and is comprised of representatives from AK DEC Solid Waste Program, ANTHC, Kawerak, and Zender Environmental. The ultimate goal of the Program is to establish a statewide backhaul framework allowing all Alaskan communities to efficiently and affordably backhaul harmful and potentially hazardous waste streams. Currently, the Program assists with rural communities' backhaul activities by providing training, supplies, technical & logistics support, onsite assistance, and sponsoring shipping & recycling services.

This document constitutes a preliminary report. BAP has at least 13 shipments that have yet to be received by recycling vendors. This document will be updated to reflect 2023 year-end figures once all shipments are settled.

Background

The BAP Pilot Program was conducted in 2 phases spanning 2018-2021. Following the 4-year pilot phase, 2022 was the first year of the Program's "Initial Implementation" phase. A detailed summary of Program efforts during the pilot phase and first year of initial implementation can be found in BAP's *2022 Annual Report*.

For 2023, the Program looked to build off the progress made in "hub & spoke" development as well as enroll several more communities and continue the regional collection events. As done in previous years, BAP looked to continue providing training opportunities, supplies, and technical assistance to rural AK communities looking to backhaul hard-to-manage materials such as scrap, lead acid batteries, and Universal Waste lamps.

Appendix A displays a map of how BAP categories Alaskan regions. *Appendix B* displays all the communities that BAP has worked with and are currently considered "enrolled" in the BAP (i.e. eligible to use BAP funds for supplies, shipping, and recycling).

Program Partnerships

REGIONAL BACKHAUL PARTNERSHIPS

As in 2022 and the Pilot Program, the BAP continues to maintain a close partnership with organizations that help facilitate backhaul activities on a regional level. Each organization provides a point-of-contact to act as a "Regional Coordinator" for the BAP. Regional coordinators act as liaisons between the Program and communities within their regions. Further, regional coordinators:

- Help coordinate backhaul activities & shipments
- Perform site visits to evaluate readiness, train local staff, and assist in backhaul activities
- Provide communities with technical assistance and backhaul needs & activities, as necessary
- Regularly report the backhaul activities and status to the BAP



- Participate in monthly regional coordinator meetings

In 2023, the following organizations act as BAP with regional coordinators:

- Aleutians - Qawalangin Tribe of Unalaska (Q-tribe)
- Bristol Bay/Lake & Penn – Bristol Bay Area Health Corp (BBAHC)
- Norton Sound – Kawerak, Inc.
- Interior – Green Star of Interior Alaska
- Kodiak – Kodiak Area Native Association
- Y-K Delta – Zender Environmental

Beyond the regional coordinators listed above, additional coordination assistance has been provided by:

- Copper River Native Association (CRNA) – Glennallen/Copper River Valley
- Curyung Tribe – Dillingham/Greater Dillingham Area, and
- Valley Community Recycling Solutions (VCRS) – Palmer/Matsu Borough.

BUSINESS PARTNERSHIPS

Major program contributions were received from Matson, the Responsible Battery Coalition (RBC), Metro Metals Northwest (Metro), and Total Reclaim during 2023.

Matson

Since 2021, BAP has had the privilege of working with Matson and the Matson Caring for Alaska Program. Over the previous 2 years, freight donations through the Matson Caring for Alaska Program have resulted in:

- 11 shipments
- Over 235,000 lbs of materials backhauled and recycled
- 25 communities served

In 2023, Matson's Caring for Alaska Program provided the BAP with additional freight donations. These donations were utilized by the BAP in the following manner:

- 2 Kodiak freight donations – 40ft containers
- 3 Unalaska freight donations – 40ft containers
- 3 Port of Anchorage freight donations – 40ft containers
 - 2 utilized in Glennallen, AK
 - 1 utilized for separate 3 Matsu Borough Collection Events
 - Big Lake, AK
 - Sutton, AK
 - Willow, AK

Roughly 136,000 lbs of recyclables were backhauled through Matson freight donations in 2023.



Responsible Battery Coalition

RBC is a nonprofit coalition of battery manufacturers, retailers, and recyclers who are committed to the responsible management of end-of-life batteries. The partnership between the BAP and RBC initiated during the Pilot Program and has grown ever since. Currently RBC provides the following:

- Donated shipping from Kodiak, Seattle, & Tacoma (pickup service)
- Donated lead acid battery packaging kits
- Facilitating recycling services from responsible and trusted battery processors
- Funding for PSA and other outreach & media opportunities
- Providing donations based off the core value of lead acid batteries received by RBC partners
- Ongoing logistical and technical assistance

Coming into 2023, roughly 215,000 lbs of lead acid batteries have been recycled through RBC vendors since the partnership's inception. BAP recycled an additional 78,000 lbs through RBC partners in 2023.

Metro Metals, Northwest

Metro is one of the largest scrap processors in the Pacific Northwest and has been a BAP vendor and partner since the Pilot Program. Relevant to their scrap processing operation, Metro holds current R2, ISO14001, and ISO45001 certificates. Beyond recycling services for scrap, appliances, and scrap metal, Metro provides additional support including, but not limited to the following:

- Feedback on BAP shipping and packaging practices
- Assisting/facilitating regional supply purchases & shipments,
- Participating in BAP trainings and collection events,
- Forwarding of other recyclable materials to appropriate vendors,
- Donated trucking services,
- Providing logistical & technical support, and
- Hosting BAP staff and allowing tours at the Metro Tacoma and Vancouver, WA facilities.

Over 275,000 lbs of backhaul materials have been recycled through Metro Metals since the partnerships inception. BAP recycled an additional 192,000 lbs to be recycled through Metro Metals in 2023.

Total Reclaim

Total Reclaim (TRI) is a recycler of scrap, refrigerant, batteries, UW lamps, and mercury bearing devices. TRI has been a partner since the development stage of the BAP. Beyond recycling services, TRI has provided BAP with the following:

- Assisting with supply purchases & shipments,
- Donations of drums, labels, pallets, and other packaging supplies,
- Providing free facilities for BAP backhaul, HazMat, and refrigerant recovery trainings,
- Participating in BAP trainings, and
- Ongoing technical assistance.



Kawerak – Alaska Airlines In-Kind Backhaul Program

In Fall of 2022, Kawerak and Alaska Air Cargo trialed backhauling palletized escrap in lieu of water ballasts. The trial was deemed successful and in May 2023 Alaska Air Cargo began regularly backhauling shipments of escrap from Nome to Anchorage. A summary of 2023 activities are as follows:

- The backhaul period ran from May through November 2023.
- Kawerak would deliver roughly 2 pallets a week of escrap to Alaska Air Cargo at the Nome airport for subsequent backhaul (on a space available basis).
- Kawerak would notify Backhaul Alaska of pending shipments and airway bill numbers through the Survey123 app.
- Upon arrival in Anchorage, Backhaul Alaska staff would either pickup and deliver escrap pallets to Central Recycling Services (CRS) in Anchorage or arrange for CRS to pick up the pallets.
- In 2023, 19 shipments totaling 43,208 lbs of escrap were backhauled.
- Backhaul Alaska covered the pickup and recycling expenses for each shipment.
- Alaska Air Cargo indicated it was willing to provide the in-kind backhaul services again beginning in spring of 2024.

ADDITIONAL PROGRAM SUPPORTERS

The BAP has continued to benefit from the ongoing funding and support of a wide range of organizations including the EPA, BIA, USDOT-PHSM, USDA, and Denali Commission.

Ongoing Program support is received by AK DEC Solid Waste Program, ANTHC, Kawerak, and Zender Environmental. Many other companies, organizations, and groups have supported Program efforts in various aspects.

Summary of 2023 Backhaul & Recycling Activities

2023 COMMUNITIES SERVED

Appendix C & D displays a map and list of communities the BAP worked with in 2023.

Some focuses of the BAP in 2023 were to:

- Further develop & utilize regional hubs in attempt to establish long term backhaul services, including the following:
 - Utilize Dillingham landfill storage area for consolidating areawide escrap and universal waste shipments.
 - Work with communities along Lake Iliamna and Lake Clark to begin establishing a consolidation point in Iliamna or Homer (or both).
 - Utilize Bering Air and AK Air Cargo in-kind shipments for facilitating Bering Straits region escrap shipments to Anchorage.



- Expand on road system collection events
- Utilize Matson freight donations:
 - Facilitate multiple shipments from Unalaska & Kodiak
 - As stated previously, expand on road system collection events
- Help address community HHW needs including:
 - Addressing the overflow of paint at the Dillingham landfill & use as a learning opportunity/model for addressing oil-based paints and paint related materials.
 - Support Kawerak and KANA in their regional HHW backhaul activities.
 - Identify potential HHW, liquid waste, and unknown drum backhaul opportunities for 2024.
 - Assist with community HHW backhaul when leveraging opportunities exist.
- Provide regional supply shipments to reduce overall supply costs and also include bulk packaging materials.
 - Utilize Metro Metals for supply consolidation from WA vendors
 - Utilize Metro Metals cheap costs for gaylord boxes and supersacks
 - Ship regional bulk supplies to hubs in 20ft containers.
 - Supplies are to be used for regional collection and distribution to outlying communities.

BAP services were offered, either directly or indirectly (through regional backhaul programs or collection events), to 53 communities in 2023. To date, BAP has been able to offer backhaul services in 79 communities.

SUPPLIES

Backhaul packaging and safety supplies are offered to all newly enrolled communities. In general, standard BAP initial supplies include the following materials:

<u>PPE</u>	<u>QTY</u>	<u>Packaging Materials</u>	<u>QTY</u>
Safety Glasses	10	Vermiculite (or equivalent)	1
Work Gloves (Medium & Large)	6	Stretch Wrap (Box of 4 Rolls)	1
Chemical Gloves (Medium & Large)	6	Tape Gun	1
Chemical Apron	3	Packaging Tape (3 Rolls)	1
First Aid Kit	1	Banding Kit – Banding	1
Splash Goggles	3	Banding Kit – Tensioner	1
Nytrile Gloves (Box of 100)	2	Banding Kit – Banding Clips	1
<u>Labels</u>	<u>QTY</u>	Fish Tote (when available)	1
#8 Corrosive Labels (Roll of 500)	1	Fluorescent lamp boxes (as needed)	-
UW Labels (Pack of 200)	1	Drums (as needed)	-
Materials for Recycle Labels (25)	1	Pallet Jack (as needed)	-
Backhaul Alaska Stickers (25)	1	Lead Acid Battery Packaging Kits (aka “Core Kits” – provided by RBC, as needed)	-
#8 Corrosive Placards (pack of 25)	1		



Additional supplies are provided upon request and Program approval.

Further, two “hub” supplies were shipped to Kodiak and Dillingham in 40ft containers. Both hub supply containers were shipped from WA and included bulk packaging material (gaylord boxes and supersacks) at a significantly reduced rate. Further, an additional 20ft container of gaylord boxes were shipped to VCRS in Palmer for utilization at the various road system collection events.

The gaylord boxes and supersacks are generally too expensive to purchase and ship from Anchorage. Utilizing Metro Metal prices and willingness to consolidate & ship supplies made these hub supply shipments feasible.

Previously enrolled communities received supply shipments during the Pilot Program. Communities needing additional supplies were served either through the hub supplies provided to Regional Coordinators or by directly requesting from the Program.

TRAINING

In 2023 BAP continued to provide trainings that cover backhaul best practices, safety, and HazMat Regulations. The Program has provided 4 Backhaul and HazMat Regulation (HMR) training opportunities in 2023 (2 of which were conducted virtually) and also provided the same training content at the annual Rural AK Community Environmental Job Training (RACEJT) Program. Below is a summary of training efforts:

2023 Backhaul and HazMat Regulation Trainings		
Date	Training	Trainee Count
Feb 21-23	Virtual – Backhaul & HMR Training	14
Mar 26-31	Rural AK Community Environmental Job Training	10
May 9-11	Anchorage – Backhaul & HMR Training	14
May 16-19	Dillingham – Backhaul & HMR Training	9
Nov 28-30	Scheduled – Virtual Backhaul & HMR Training	23
	Total Trainees	70



SITE VISITS

The BAP performs site visits to select communities throughout the backhaul season. Site visits may be conducted by BAP staff or Regional Coordinators. Often times Regional Coordinators are traveling to communities for other work-related reasons and use their organization’s funds to conduct site visits.

In general, BAP community site visits are conducted to assess, document, and assist with the following aspects:

- Determine current status of backhaul activities,
- Obtain and/or confirm communities’ inventory of program materials,
- Assess community capacity and means of collection & storage,
- Ensure necessary labels, supplies, and PPE are available,
- Assist in collection & packaging of program materials, as necessary,
- Provide additional training (including elements of the DOT HMR training) for those performing BAP activities, if needed, and
- Provide guidance and technical assistance to ensure completion of backhaul activities, as needed.

The table below provides a summary of 2023 site visits conducted by BAP staff and Regional Coordinators:

Date	Community	BAP Coordinator Present
4/17/23	Fairbanks	Reilly Kosinski (Statewide Coordinator) Lisa Pullock (Regional Coordinator)
4/20/23	Denali National Park	Reilly Kosinski (Statewide Coordinator)
4/20/23	Palmer	Reilly Kosinski (Statewide Coordinator)
5/8/23	Atka	Lynn Zender (acting Statewide Coordinator)
5/9/23	Port Lions	Andie Wall (Regional Coordinator)
5/16/23	Dillingham	Reilly Kosinski (Statewide Coordinator) Derrick Spoelman (Statewide Coordinator) Melany Stumpner (Regional Coordinator)
6/8/23	Klukwan	Reilly Kosinski (Statewide Coordinator)
6/9/23	Chenga	Lepani Nadore (Statewide Coordinator)
6/12/23	Newhalen	Derrick Spoelman (Statewide Coordinator)
6/13/23	Iliamna	Derrick Spoelman (Statewide Coordinator)
6/14/23	Nondalton	Derrick Spoelman (Statewide Coordinator)
6/15/23	Port Alsworth	Derrick Spoelman (Statewide Coordinator)
6/19/23	Nome	Stephanie Mason (Statewide Coordinator)
6/19/23	Koliganek	Melany Stumpner (Regional Coordinator)
6/28/23	Deering	Lepani Nadore (Statewide Coordinator)
7/5/23	Kipnuk	Lepani Nadore (Statewide Coordinator)
7/6/23	Quinhagak	Lepani Nadore (Statewide Coordinator)
7/19/23	Glennallen (Collection Event)	Reilly Kosinski (Statewide Coordinator) Lepani Nadore (Statewide Coordinator)
7/21/23	Naknek & South Naknek	Stephanie Mason (Statewide Coordinator) Melany Stumpner (Regional Coordinator)
7/28/23	Willow (Collection Event)	Lepani Nadore (Statewide Coordinator)



Date	Community	BAP Coordinator Present
8/1/23	Karluk	Andie Wall (Regional Coordinator)
8/5/23	Big Lake (Collection Event)	Derrick Spoelman (Statewide Coordinator) Reilly Kosinski (Statewide Coordinator)
8/10/23	Unalaska (Collection Event)	Reilly Kosinski (Statewide Coordinator) Stephanie Mason (Statewide Coordinator) Jon Gustafson (Regional Coordinator)
8/13/23	Sutton (Collection Event)	Lepani Nadore (Statewide Coordinator) Reilly Kosinski (Statewide Coordinator)
8/15/23	Kipnuk (Follow-up Visit)	Lepani Nadore (Statewide Coordinator)
8/23/23	Old Harbor	Andie Wall (Regional Coordinator)
8/29/23	Ouzinkie	Andie Wall (Regional Coordinator)
9/7/23	Larsen Bay	Andie Wall (Regional Coordinator)
9/20/23	Port Lions (Follow-up Visit)	Andie Wall (Regional Coordinator)
9/22/22	Kodiak (Collection Event)	Stephanie Mason (Statewide Coordinator) Andie Wall (Regional Coordinator)
9/25/23	Dillingham (Paint Project)	Derrick Spoelman (Statewide Coordinator) Melany Stumpner (Regional Coordinator)
9/26/23	Akiak	Andie Wall (Regional Coordinator)

Staff turnover is a common occurrence in rural communities, including in BAP communities. Due to new individuals performing Backhaul Alaska activities (either through turnover or additional staff that were unable to attend a BAP training), onsite training can be provided during site visits. Additionally, those who have attended a virtual or in-person BAP training indicated refresher trainings & hands-on practice was very beneficial, especially in their home setting.

The training provided during site visits were tailored to the immediate needs of the community. Often, training included (but not limited to) the following:

- Best practices in collection and storing program material,
- General packaging guidelines (lead acid batteries, fluorescent lamps, scrap electronics, and in some cases household batteries),
- Proper marking & labeling,
- Material loading & placarding, and
- Completing shipping paperwork.

HUB DEVELOPMENT

Using a hub & spoke model (similar to Kawerak’s regional backhaul program), the BAP has been working with Regional Coordinators and other regional partners to establish collection hubs within various AK regions. Building off 2022’s efforts, BAP hub development efforts in 2023 are summarized below:



Kodiak

- KANA has continued ongoing collecting and storing incoming escrap, lamps, & batteries from the communities off the road-system.
- Incoming backhaul materials are stored in a 40ft container (donated by Matson) located at Saint Herman Boat Ramp on Near Island.
- KANA facilitates the packaging and shipping of the collected materials in conjunction with an annual collection event.
- KANA has also facilitated the backhaul of HHW from outlying communities to Kodiak utilizing an EPA Hazardous Waste grant. The hope is to also include community HHW in backhaul shipments in subsequent years.
- All 6 Kodiak communities located off the road system are now participating in the Program. The KANA regional coordinator was able to make site visits to all 6 communities in 2023 to provide backhaul training and technical assistance.
- KANA received a 40ft container of hub supplies (PPE and packaging materials) for regional use.
- In 2024 BAP aims to:
 - Provide a regional backhaul and HMR training in Kodiak
 - Strengthen the island-wide collection,
 - Support KANA HHW collection and backhaul efforts,
 - Take advantage of opportunities to also backhaul derelict nets and marine debris to organizations working in Kodiak.

Dillingham

- Curyung Tribe has historically provided community backhaul opportunities in Dillingham. Lack of storage, staff, and reduced funding jeopardized the continuation of their backhaul activities.
- Currently a partnership between Curyung, BBAHC, BBNA, Dillingham Friends of the Landfill, and the City of Dillingham, the Backhaul AK Program helped facilitate the backhaul of collected materials.
- BAP is still looking for available connex for purchase. Previous attempts have fallen through and there is a lack of available connex in Dillingham.
- Areawide collection and consolidation is available to communities within the greater area such as Aleknagik, Ekwook, New Stuyahok, Koliganek, and Clark's Point. BBAHC and Curyung oversee collection and consolidation activities.
- A regional backhaul, HMR, and refrigerant recovery training was conducted in partnership with BBAHC, Curyung, and the City of Dillingham.
- An effort to package and ship all landfill collection connexes (escrap, UW lamps, and paint products) was undertaken throughout the backhaul season.
- BBAHC received a 40ft container of hub supplies (PPE and packaging materials) for regional use.
- In 2024 BAP aims to:
 - Strengthen the greater-area collection efforts,
 - Purchase storage connex(es) for additional storage. Explore possibilities of having storage closer to the Harbor (reduce time & trucking costs).
 - Finish assisting with the cleanout of landfill connexes and setup more organized and controlled collection system.



Unalaska

- Qawalangin Tribe has continued ongoing collecting of escrap, lamps, & lead acid batteries.
- Qawalangin tribe has also purchased a small baler and glass crusher. They are collecting aluminum cans, plastic bottles, and cardboard from the community. Matson donates shipping to Washington for recycling.
- Began process of collecting community escrap at the landfill. The BAP Regional Coordinator with the Qawalangin Tribe provides gaylord boxes to landfill staff. Once full the City of Unalaska drops off full gaylords of escrap.
- Atka flew escrap on the backend of a charter to Unalaska. Materials were backhauled with the Unalaska collection event materials. This was the first instance of an outlying community utilizing Unalaska as a hub for recycling.
- In 2024 BAP aims to:
 - Restock backhaul supplies, including bulk packaging materials (gaylords and supersacks) to Qawalangin Tribe.
 - Support Qawalangin Tribe’s general recycling program with logistics management and vendor options.
 - Further development of the hub & spoke model by continued assistance with Atka and exploring other opportunities to send backhaul materials to Unalaska.

Nome

- Kawerak has continued their long history of consolidating and backhauling materials regionwide.
- The AK Air Cargo in-kind backhaul program was Piloted at the end of 2022. Regular shipments of 2-4 pallets initiated in May of 2023 and continued throughout the year. Pallets are picked up by BAP staff and delivered to a local Anchorage recycler.
- Additionally, Kawerak, Inc. has continued collecting and facilitating the recycling of lead acid batteries, household batteries, UW lamps, and scrap metal.
- Kawerak has begun assisting regional communities with HHW consolidation and backhaul. BAP assisted in vendor selection of certain liquid wastes as well as pickup & delivery of PPE and packaging materials in Anchorage (subsequently shipped via barge to Nome).
- In 2024 BAP aims to:
 - Continue supporting Kawerak’s regional backhaul program
 - Explore feasibility of storage of incoming material via AK Air Cargo so Matson freight donations can be utilized for shipment.
 - Assist Kawerak’s efforts with household battery and HHW management.
 - Coordinate a 40ft container shipment of hub supplies (PPE and packaging materials) for regional use.

Fairbanks

- BAP purchased two 40ft containers and had them spotted at GSIA to provide more covered storage capacity.
- BAP assisted with forwarding materials from the Denali Borough and arriving in Nenana to GSIA for recycling.



- In 2024 BAP aims to:
 - Further establish collection and forwarding points along the road system outside Fairbanks North Star Borough. Specifically, continue current practices in Nenana & within the Denali Borough, as well as work toward similar collection points in Delta Junction and Tok.
 - Support GSIA community outreach efforts to Interior communities.
 - Conduct site visits and assist “GASH” community backhaul efforts (Grayling, Anvik, Shageluk, and Holy Cross).

Glennallen

- The 2nd regionwide public collection event was held in Glennallen in partnership with the Copper River Native Association (CRNA) and Recycling Our Area Resources (ROAR).
- The 2023 collection expanded the scope to allow tribes from the outlying communities to bring in household appliances including refrigerators and freezers. BAP staff provided refrigerant recovery services for the refrigerators and freezers.
- 2 full 40ft containers were loaded and shipped utilizing Matson Caring for Alaska freight donations.
- In 2024 BAP aims to:
 - Coordinate a 2024 collection event with a similar scope, with the possibility of expanding appliance collection to the general public (in Glennallen)
 - Approach the Glennallen landfill, a privately operated for-profit landfill operated by Copper River Sanitation, to determine feasibility of collection and staging at the landfill. Initial talks indicated that the landfill was open to this idea.

Iliamna

- In 2022, BAP assisted with the logistics management of backhaul shipments from Newhalen and Nondalton. The Program looked to expand upon the 2022 efforts and manage materials from Iliamna and Port Alsworth as well.
- BAP staff conducted initial site visits to assess inventory, collection methods, and shipping options from these 4 communities.
- Additionally, BAP began initial discussion with Iliamna Development Corporation (IDC) and Homer Spit Marine Terminal (HSMT) to determine the feasibility of consolidating materials in Iliamna and/or Homer to make shipping more efficient & cost effective.
- BAP assisted in managing the shipment of 5 20ft containers and 32 pallets/totes of backhaul materials from Newhalen, Iliamna, and Nondalton.
- Port Alsworth material was staged at the beach landing but was not loaded by the IDC barge. BAP is in the midst of determining why the material was not picked up.
- In 2024 BAP aims to:
 - Provide more indepth packaging and HazMat regulation training for staff for these communities.
 - Determine the root cause of the Port Alsworth shipment and follow through with the backhaul.
 - Assist backhaul of the remaining materials at the Newhalen and Nondalton landfills, including helping with planning so future collection is more controlled.



- Return the totes used for backhauling 2023 to the appropriate communities.
- Assist with sampling and drum management at Newhalen, Iliamna, and Nondalton.
- Explore options with IDC to develop a consolidation point in Iliamna for escrap, lead acid batteries, and UW lamps from these 4 communities.
- Explore feasibility of utilizing Matson freight donations out of HSMT.

2023 BACKHAUL ACTIVITY

2023 BACKHAUL SUMMARY

As of October 20th, 2023 at least 9 BAP shipments have yet to be received by the end destination vendors; thus, weights of 2023 backhauled materials are estimates.

In 2023, BAP expects to have overseen the backhaul of roughly 450,000 lbs of material. *Appendix E* provides greater detail regarding backhauled quantities and funding sources.

CONTROL TOWER

The Control Tower manages the overall movement of Backhaul Alaska material. General responsibilities of the Control Tower entity include:

- Coordinate the logistics of backhaul materials between communities and recycling vendors.
- Utilize information provided by BAP staff and Regional Coordinators to determine the most efficient and cost-effective method of transport on local and regional levels.
- Regularly report the status of activities to BAP staff and Regional Coordinators.

From 2021 to 2022, the BAP contracted with Waste Management (WM) to act as the Program’s “Control Tower” entity. Due to WM staffing turnover, twice in two years, BAP decided to not renew the contract for Control Tower services with WM. Instead, Control Tower activities would be accomplished by a dedicated BAP staff person.

BAP discuss contracting out Control Tower services in 2023 with Naniq Global Logistics (Naniq), but Naniq indicated the role & responsibilities of the position did not fit with their current business model. BAP conducted a follow-up meeting with Naniq to discuss the possibility of a partial role. Naniq said they could provide information regarding the extent of their services as it relates to the Control Tower roll and the Program is currently waiting for further information from Naniq.



PACKAGING VALIDATION

BAP has yet to make a packaging validation trip to vendors in Washington as of yet in 2023. Some general feedback from various vendors (both transportation and end destination) received in 2023 is as follows:

Metro Metals, NW (eScrap recycling vendor in Tacoma & Vancouver, Washington)

- Packaging in general has been good.
- Metro can provide additional packaging materials in 2024 (both bulk packaging and forwarding other hub supplies)
- The more items are sorted prior to shipment, the better the costs/revenue on the settlements (Metro specifically noted the circuit boards that were packaged separately during the Matsu public collection events).
- All-in-one units (CRT/LCD + CPU) can be placed on CPU pallets.
- Suggested using CRS for escrap that is recycled in Anchorage (Metro is their downstream processor).

Central Recycling Service (escrap & scrap metal recycling vendor in Anchorage, Alaska)

- Prefer not to receive aluminum cans in supersacks (or at all, unless baled)
- Prefer for sorted escrap...at minimum CRT/LCD segregated from all other escrap.

Sourdough Express (Alaska Trucking Vendor)

- Noticed that Battery Totes from Lakes Communities were not properly labeled (tote labeling was fixed and delivered).

Iliamna Development Corporation (Transporter of Lake Clark & Lake Iliamna material via barge and truck to Homer, AK).

- Similar to Ruby Marine, all Lead Acid Batteries must be packaged in fish totes.

Internal (Zender)

- AK Air Cargo shipments needed further reinforcement on wrapped pallets (additional banding and/or stretch wrap on the tops of pallets).
- AK Air Cargo shipments of escrap did not have Universal Waste labeling.
- Universal Waste labels are being used on escrap in multiple instances statewide.



Appendix

The following can be found within this appendix:

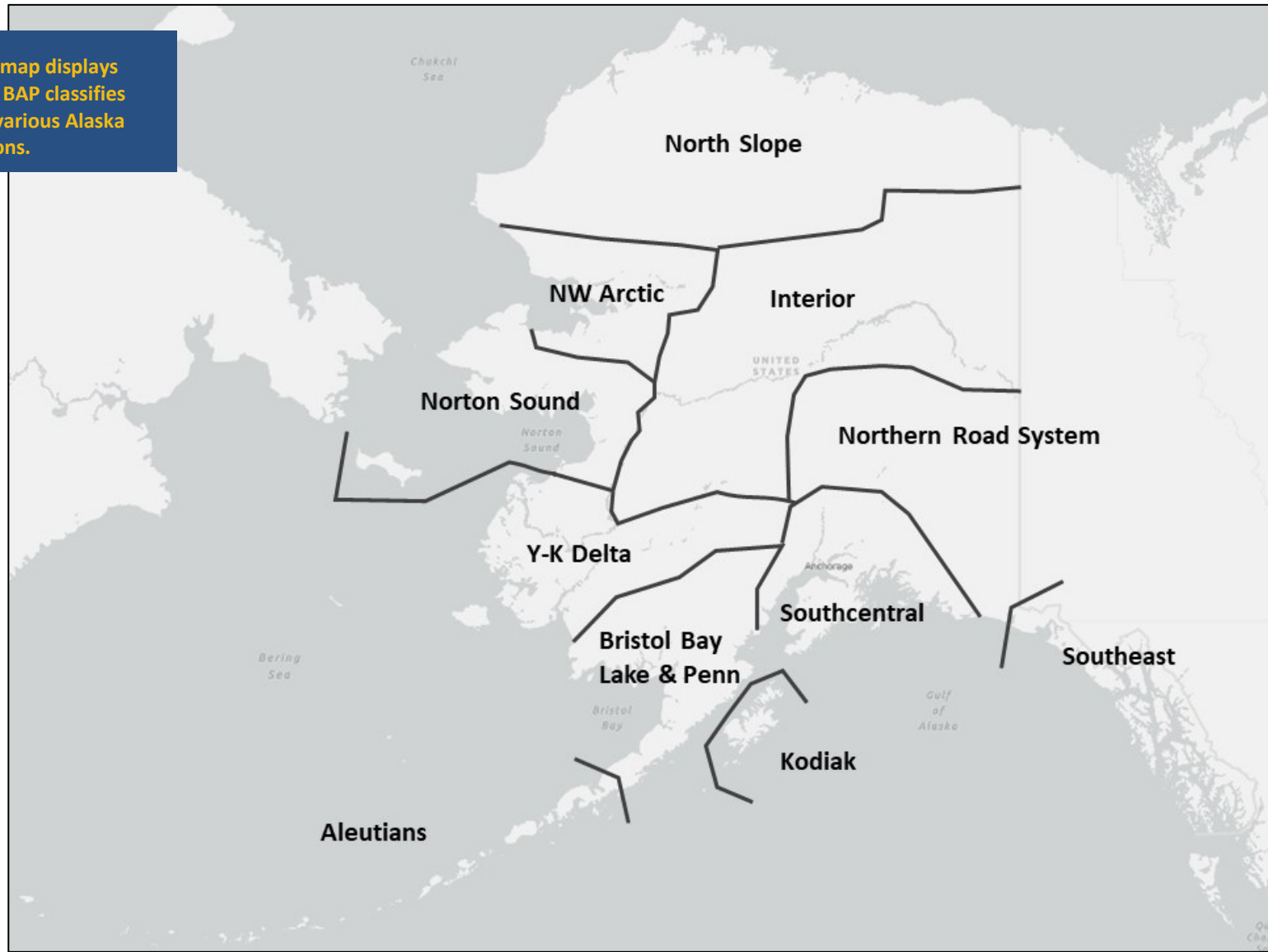
- Appendix A** – Alaska Map: Backhaul Alaska Regions
- Appendix B** – Alaska Map: BAP Communities thru 2023
- Appendix C** – Alaska Map: 2023 Communities/Service Area
- Appendix D** – Table: 2023 Communities & Service Areas
- Appendix E** – Table: 2023 Backhaul Summary
- Appendix F** – Select Site Photos



Backhaul Alaska Program 2023 Annual Report

Appendix A – Alaska Map: Backhaul Alaska Regions

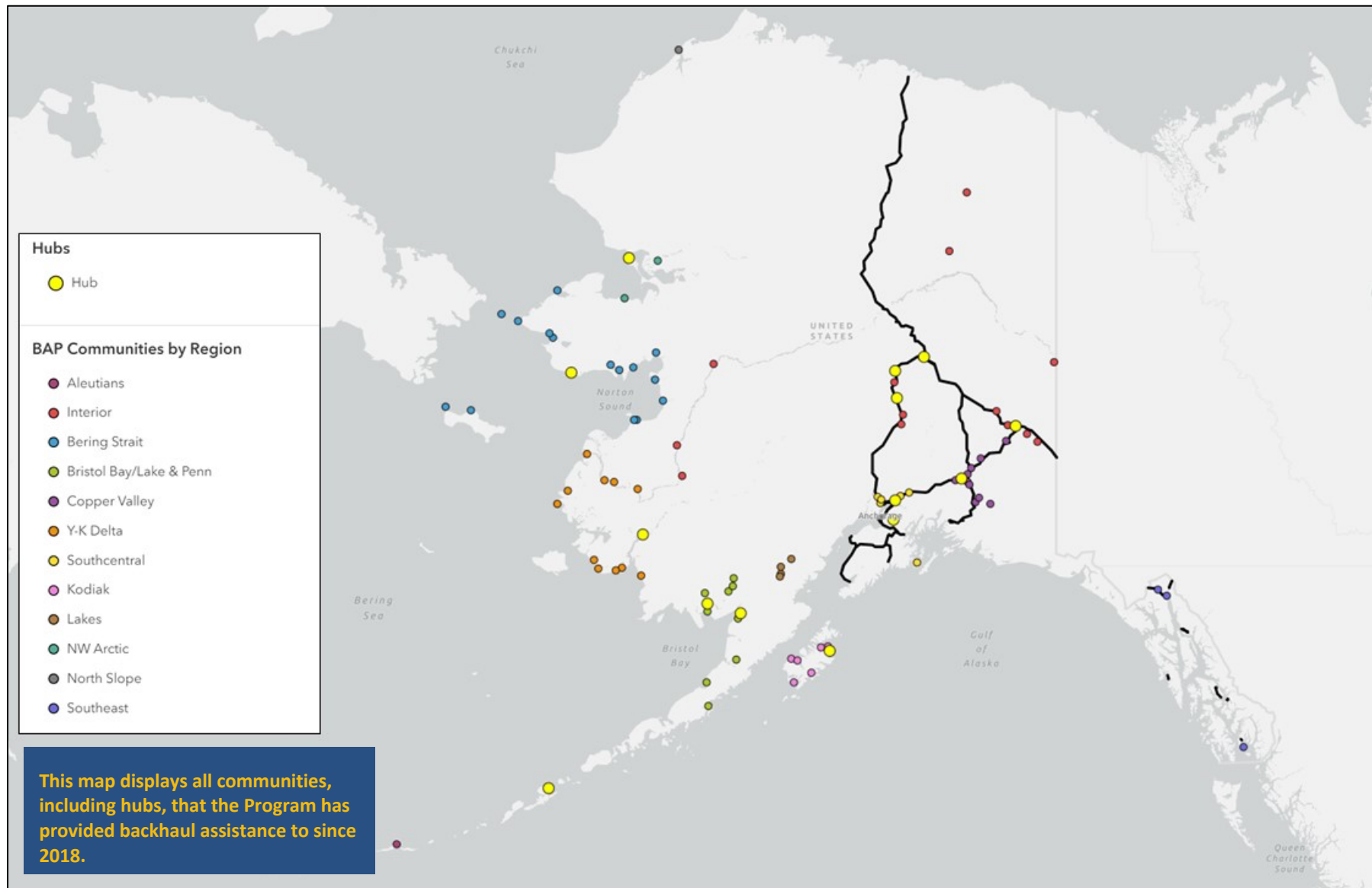
This map displays how BAP classifies the various Alaska regions.





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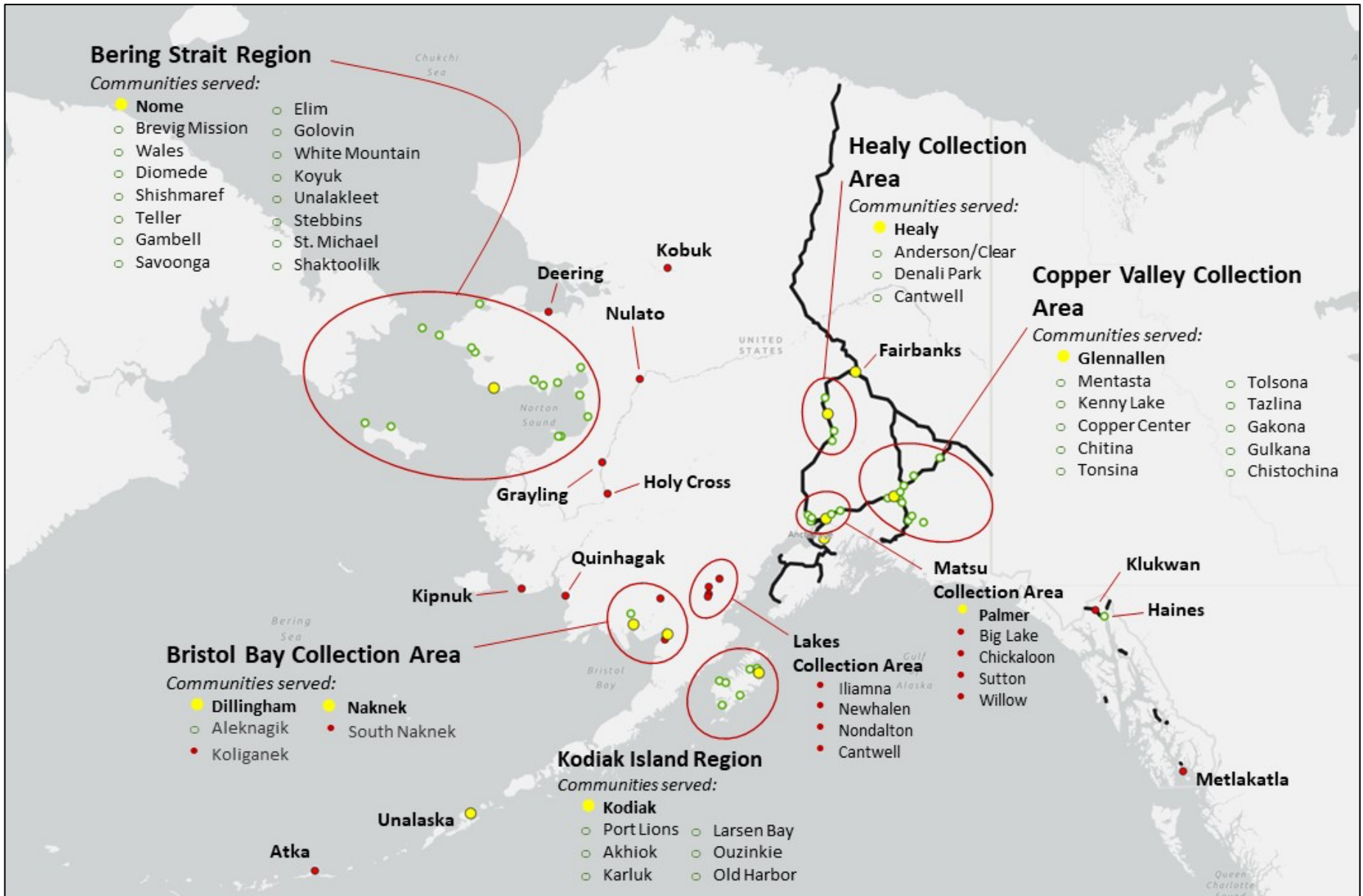
Appendix B – Alaska Map: BAP Communities through 2023





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Appendix C – Alaska Map: 2023 Communities & Service Area





2023 Backhaul Alaska Annual Report

Appendix D – Table: 2023 Communities and Service Areas | Dated 4/29/24

The following Table lists communities that had the opportunity to use BAP backhaul resources in 2023.

Region	Community	Status	Region	Community	Status
Aleutians	Atka	New	Northwest Arctic	Deering	New
	Unalaska	Pilot/Hub		Kobuk	New
Bristol Bay	Dillingham	Hub	Road System	Fairbanks	Hub
	Aleknagik	Umbrella		Glennallen	Hub
	Koliganek	Pilot/Umbrella		Chistochina	Service Area
Lakes	Iliamna	New		Chitna	Service Area
	Newhalen	New		Copper Center	Service Area
	Nondalton	New		Gakona	Service Area
	Port Alsworth	New		Gulkana	Service Area
Interior	Grayling	New		Kenny Lake	Service Area
	Holy Cross	New		Mentasta	Service Area
	Nulato	Pilot		Tazlina	Service Area
Kodiak	Kodiak	Hub	Tolsona	Service Area	
	Akhiok	Umbrella	Tonsina	Service Area	
	Karluk	Umbrella	Healy	Hub	
	Larsen Bay	Pilot/Umbrella	Anderson/Clear	Service Area	
	Old Harbor	Pilot/Umbrella	Denali Park	Service Area	
	Ouzinkie	Pilot/Umbrella	Cantwell	Service Area	
	Port Lions	Pilot/Umbrella	Palmer	Hub/New	
Bering Strait	Nome	Hub	Big Lake	Service Area	
	Brevig Mission	Umbrella	Chickaloon	Service Area	
	Diomede	Umbrella	Houston	Service Area	
	Elim	Umbrella	Sutton	Service Area	
	Gambell	Umbrella	Willow	Service Area	
	Golovin	Umbrella	Southeast	Haines	Umbrella
	Koyuk	Umbrella		Klukwan	New
	Saint Michael	Umbrella		Metlakatla	New
	Shaktoolik	Umbrella	Y-K Delta	Kipnuk	Pilot
	Shishmaref	Umbrella		Quinhagak	Pilot
	Stebbins	Umbrella			
	Teller	Umbrella			
	Wales	Umbrella			
	White Mountain	Umbrella			

Definitions:

Pilot – A community that was originally enrolled during the 2018-2021 Pilot Program.

New – A community that enrolled in 2023.

Hub – A community that acts as a consolidation point or end destination for material managed by BAP.

Umbrella – A community that is served by a regional backhaul program run by a BAP partner organization.

Service Area – A community notified about a BAP collection opportunity at a nearby hub.



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Appendix E – Table: 2023 Backhaul Summary

Summary of Backhaul Alaska Shipping Activities

The table below displays a summary of all known poundage recycled by material category for the various communities the Program worked with in 2023 through 10/17/23. Note – BAP expects an additional 13 shipments to be added to 2023 year-end totals (est. 140,000 lbs).

Community	Shipments	Escrap	LABs	UW Lamps	Nets	Scrap	Cardboard	Al Cans	Glass	HHW (Paint)	Net Weight*	BAP Funded ²	BAP Partial Fund ³	BAP Tech Assist & Logistics Mngt ⁴
Aleutians														
Atka	1	2,175	2,153	-	-	-	-	-	-	-	4,328		X	
Unalaska	3	25,520	3,580	694	-	1,130	780	498	-	498	32,202	X		
Bristol Bay/Lake & Peninsula														
Dillingham**	4	22,217	801	2,940	-	-	-	-	-	11,520	37,478		X	
Koliganek	1	1,820	3,910	-	-	-	-	-	-	-	5,730		X	
Naknek	0.5	-	4,910	-	4,900	-	-	-	-	-	9,810		X	
South Naknek	0.5	-	14,336	-	-	-	-	-	-	-	14,336		X	
Lake Clark & Lake Iliamna (Lakes)														
Iliamna	2	1,263	12,248	647	-	10,000	-	-	-	150	26,122		X	
Newhalen	3	4,414	-	-	-	20,000	-	-	-	-	24,414		X	
Nondalton	4	3,000	9,796	-	-	20,000	-	-	-	-	32,796		X	
Copper River Valley														
Glennallen**	3	7,032	3,404	384	-	19,907	126	-	-	-	30,853	X		
Interior														
Nulato	1	2,644	47	1	-	141	-	-	-	-	2,833		X	
Denali Borough**	1	3,640	118	-	-	-	-	-	-	-	3,758	X		
Kodiak														
Kodiak**	2	8,121	22,130	271	-	2,813	-	-	-	-	33,335		X	
Bering Strait														
Nome**	21	43,108	28,460	2,730	-	1,010	-	-	-	-	75,308	X		
Northwest Arctic														
Deering	2	3,007	12,306	180	-	1,200	-	753	-	-	17,446		X	
Kobuk	1	1,499	-	-	-	-	-	-	-	-	1,499		X	
Southcentral														
Big Lake**	2	11,968	-	186	-	-	-	-	-	-	12,154	X		
Palmer**	1	4,587	-	-	-	-	-	-	-	-	4,587	X		
Sutton**	1	3,709	-	-	-	-	-	-	-	-	3,709	X		
Willow**	2	3,205	-	137	-	-	-	-	-	-	3,342	X		
Y-K Delta														
Kipnuk	2	6,146	3,455	-	-	-	-	-	-	-	9,601			X
Southeast														
Haines	2	9,470	-	-	-	45,920	-	-	-	-	53,890			X
Metlakatla	1	-	-	-	-	-	-	-	-	-	---	X		
Klukwan	1	1,446	-	-	-	-	-	-	-	-	1,446			X
	62	173,484	124,109	8,170	4,900	122,213	906	1,545	1,520	11,670	448,517			

Notes – Items in **Red** were consolidated in hubs and included in other loads. Quantities in **Red** are not included in the **Totals**.

* Not all settlements have been received from vendors. Some quantities & totals are best estimates.

** Quantities include regional/area-wide collection efforts.

¹ **General Recyclables** include Cardboard, Plastic Bottles, and Aluminum Cans.

² **BAP Funded** includes shipments where the Backhaul AK Program funded all shipping and recycling costs.

³ **BAP Partial Fund** includes shipments where the Backhaul AK Program split shipping & recycling costs with communities or partnering organizations.

⁴ **BAP Assist** includes shipments where communities or partnering organizations funded all shipping and recycling costs & where the Backhaul AK Program provided technical assistance and managed shipping logistics.



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Appendix F – Select Site Photos

The following pages provide photos and description of the work from select BAP communities conducted during the 2023 backhaul season:

Aleutians

- Atka
- Unalaska

Bristol Bay

- Dillingham
- South Naknek

Lakes

- Iliamna
- Newhalen
- Nondalton
- Port Alsworth

Kodiak (regionwide)

Northwest Arctic

- Deering

Northern Road System

- Glennallen
- Matsu Collection Events (Willow, Big Lake, & Sutton)

Southeast

- Haines
- Klukwan

Y-K Delta

- Kipnuk



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Appendix F – Select Site Photos



Unalaska, AK – Public Collection Event

BAP and Q-tribe held their 3rd annual collection event. Q-tribe began accepting drop-offs of pallets of electronics from the City of Unalaska through out the year. Material was stored in connexes purchased by the BAP and subsequently loaded up for shipment during the event. Additional lamps, lead acid batteries, and other recyclables sorted by Q-tribe were also shipped using 2 Matson freight donations.



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Atka, AK

The Native Village of Atka reached out to Zender & BAP to see if assistance can be given to help remove items from the Atka Landfill. A landfill assessment was conducted in March and BAP assisted with receiving 5 pallets of Escrap in Unalaska (shipped out during the Unalaska Collection Event) and managing a tote of lead acid batteries (shipped directly to Washington). A Backhaul, HMR, and Junk Vehicle preparation training in Atka was also conducted (onsite) during the beginning of November, 2023.



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Dillingham, AK – Regional Training & Backhaul

The BAP, in partnership with BBAHC, Curyung, and the City of Dillingham has been progressing toward establishing a means to collect stage and store escap and UW lamps from Dillingham as well as the surrounding communities. A focus for 2023 was to remove the legacy escap and UW lamps from the landfill storage connexes, then reorganize the area for a more controlled ongoing collection. A regional training in May allowed for trainees to help package, load and ship backlogged escap.





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Dillingham, AK – Paint Backhaul

To learn & better understand managing HHW, BAP, BBAHC, and Curyung targeted backhauling the used paint collection at the City landfill. Curyung provided funding to cover shipping and disposal of oil-based and latex paints. BAP funded the packaging material and sent staff to assist. BBAHC coordinated the preparations for managing the paint. Roughly 11,000 lbs was shipped to Oregon for disposal.





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South Nakenk, AK – Escrap Collection

During the Regional Backhaul, HMR, and Refrigerant recovery training in Dillingham BAP learned South Nakenk was looking for some assistance in packaging and backhauling lead acid batteries and escrap. BAP and BBAHC staff coordinated a site visit where local staff were provided hands-on training while preparing backhaul materials. Pallets were transported to Naknek where the Lake & Penn Borough loaded derelict fishing nets to fill the remaining space in the shipping container. BAP is hoping to build off this initial shipment and explore opportunities of using Naknek as a hub.





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Lake Iliamna & Lake Clark Communities

BAP exploring the possibility of utilizing Iliamna as a consolidation point for backhaul materials originating from Lake Iliamna and Lake Clark communities. BAP staff performed site visits to Iliamna, Newhalen, Nondalton, and Port Alsworth to assess inventory and plan out 2023 backhaul. Combined funding from all communities resulted in the backhaul of 4 containers and 32 totes of recyclable via IDC barges (including trucking via Pile Bay) to Homer. BAP managed the logistics of getting the various materials to vendors in Anchorage, including emptying all totes so they could be returned to the villages.





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Larsen Bay, AK – Kodiak Regional Backhaul Program

BAP partners with Kodiak Area Native Association (KANA) to provide island-wide backhaul & recycling services. KANA provide onsite and technical assistance to help offroad communities prepare and backhaul recyclables. In 2023, KANA was able to perform site visits in all 6 communities off the Kodiak road system.



Port Lions, AK

Port Lions Staff learning how to palletize lead acid batteries.



Ouzinkie, AK

Ouzinkie staff preparing to palletize escrap.





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Appendix F – Select Site Photos

Karluk, AK – KANA & Karluk staff collecting escrap for backhaul

KANA funds site visits by KANA staff to the 6 communities off the Kodiak road system. KANA often utilizes charters for these site visits. When charters are utilized, KANA ensures available space is used for backhauling recyclables.



Larsen Bay, AK – KANA/Kodiak Regional Backhaul Program

KANA staff utilizing air cargo for backhauling Larsen Bay escrap after conducting a site visit.



Kodiak, AK – KANA/Kodiak Regional Backhaul Program

Upon return to Kodiak, KANA staff transfers backhauled escrap to a storage connex. All materials collected from the island communities are packaged and shipped to recyclers each fall.





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Deering, AK – Backhaul of Legacy Materials

Deering IGAP staff reached out to BAP looking for assistance in how to shipout lead acid batteries. The lead acid batteries had be sitting on pallets for a number of years and current staff were unsure how to go about preparing them for backhaul. BAP staff traveled to Deering to training and assist preparing 2 shipping containers of lead acid batteries, escrap, UW lamps, and Al cans for backhaul.





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Glennallen, AK – Regional Escrap, Lead Acid Battery and Appliance Collection

2023 was the 2nd year BAP partnered with CRNA and ROAR to conduct a regional collection of backhaul materials. In addition to escrap, lead acid batteries, and UW lamps, CRNA member communities were allowed to drop off white goods, refrigerators, and freezers for backhaul. BAP staff provided refrigerant recovery services for the 55+ refrigerators and freezers that



Glennallen, AK

The collection event saw the backhaul of over 30,000 lbs of recyclables. Matson Caring for Alaska Program donated the shipping out of the Port of Anchorage, BAP provided staff and funds for supplies and trucking between Anchorage and Glennallen, and CRNA coordinated volunteers, outreach, and drop-offs by the



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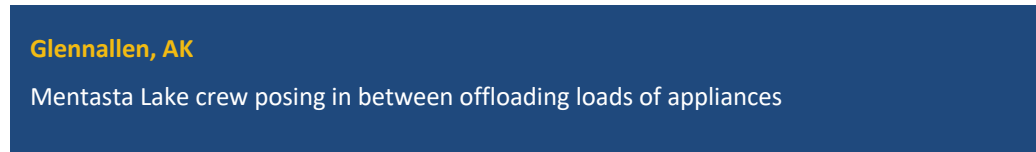
Glennallen, AK

Escrap, Refrigerators, and Appliances staged prior to loading.



Glennallen, AK

BAP staff and volunteer loading appliances



Glennallen, AK

Mentasta Lake crew posing in between offloading loads of appliances





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Willow, AK – Matsu Borough Collection Events

Willow was the first of 3 collection events within the Matsu Borough. BAP partnered with VCRS to conduct these collections. Each was held at a Matsu Borough Transfer station. VCRS coordinated volunteers and site logistics while BAP provided supplies, staff, and funding for shipping & recycling. Matson Caring for Alaska Program provided in-kind shipping out of the Port of Anchorage.





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Big Lake, AK – Matsu Borough Collection Events

Big Lake Transfer Station was the site of the 2nd Matsu Collection Event. This site saw the largest influx of escrap and UW lamps. Over 12,000 lbs of recyclables were dropped off during the 2-day event.





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Appendix F – Select Site Photos



Sutton, AK – Matsu Borough Collection Events

Sutton Transfer Station was the site of the 3rd and final Matsu Collection Event. Chickaloon provided heavy equipment and an operator to load the container at the end of the event. The container was trucked to VCRS where the public was allowed to drop-off escrap until all the remaining space was utilized. A total of nearly 24,000 lbs of recyclables were received at the Matsu collection events.





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Kipnuk, AK

Kipnuk requested assistance in preparing items for backhaul. BAP staff made 2 trips to Kipnuk to train and work alongside Kipnuk staff to prepare the stored escrap and lead acid batteries for the fall barge.

