

JUNEAU & ZERO WASTE

February 12, 2024

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JUNEAU'S WASTE - BIG PICTURE

Capitol Disposal Landfill has ~10 – 15 years of life left at our current disposal volumes.

We are faced with big question – what will we do with our trash in the future?

**SHIP OUR
WASTE
SOUTH**

**NEW
LANDFILL**

**INCINERATOR/
THERMAL
SOLUTION**

JUNEAU WASTE 101

SERVICE*

WASTE HAULING

Hauls waste and curbside recycling to landfill

LANDFILL

Accepts waste

CBJ

Recycling Center / Junk Vehicle
Household Hazardous Waste

PROVIDER



OWNERSHIP

PRIVATELY OWNED

PRIVATELY OWNED

PUBLIC ENTITY

REGULATED BY

**REGULATORY COMMISSION
OF ALASKA (RCA)**

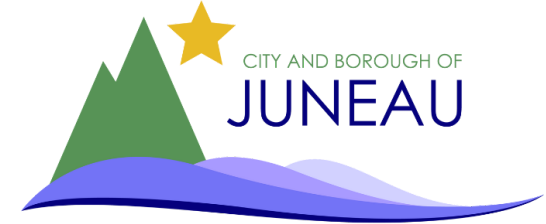
**STATE: ALASKA DEPARTMENT
OF ENVIRONMENTAL
CONSERVATION (DEC)**

**FEDERAL: ENVIRONMENTAL
PROTECTION AGENCY (EPA)**

**SPECIFIC ADEC OR EPA
REGULATIONS APPLY
SITUATIONALLY**

***IN ADDITION TO THE LISTED SERVICES, JUNEAU COMPOSTS! ACCEPTS FOOD, YARD WASTE, AND OTHER ORGANICS;
SKOOKUM SALES & RECYCLING AND D&S RECYCLING ALSO ACCEPT SCRAP METALS.**

CBJ RECYCLEWORKS PROGRAMS



RECYCLING CENTER

- Diverts an average of ~7% of the landfill's annual volume
- CBJ contracts with WM for recycling

HOUSEHOLD HAZARDOUS WASTE

- HHW keeps hazardous chemicals and cooking oil from our sewer systems and diverts an average of another ~3% from the waste stream
- CBJ contracts with Clean Harbors for HHW

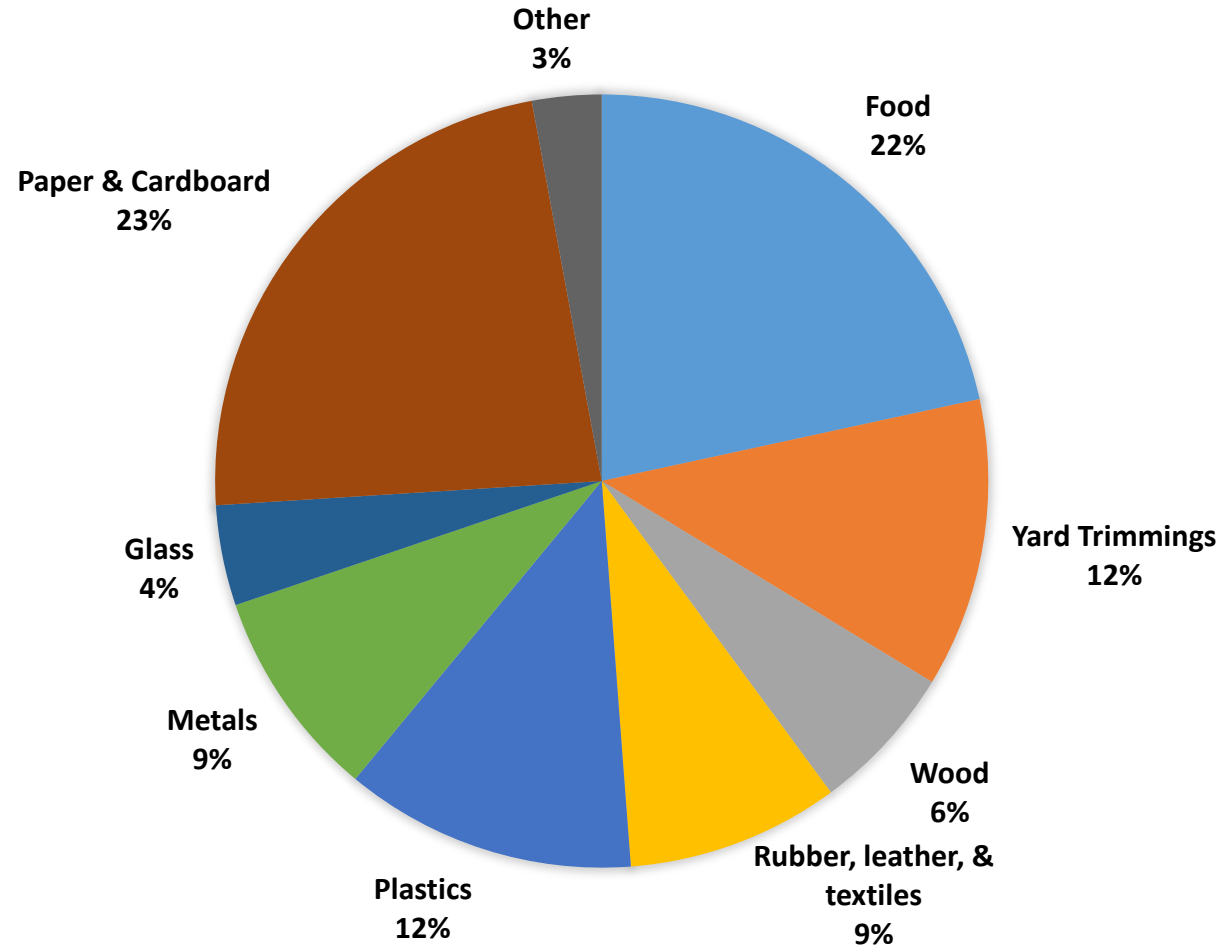
JUNK VEHICLES

- Junk Vehicles can be disposed of responsibly
- CBJ contracts with Skookum for JV recycling

The success and growth of these programs are based on voluntary resident participation.

WHAT'S IN OUR TRASH?

TOTAL US MUNICIPAL SOLID WASTE PRODUCED (BY MATERIAL) 2018*



*Data from EPA, 2020

JUNEAU'S WASTE PRODUCTION AND DIVERSION

In 2022, Juneau landfilled:

- 24,750 tons of municipal solid waste (MSW)
- 4,138 tons of construction and demolition waste (C&D)

In 2022, CBJ diverted:

- ~1,185 tons of recyclables (~5% of waste stream)
- ~355 tons of HHW (<2% of waste stream)

In 2022, Juneau Composts! diverted:

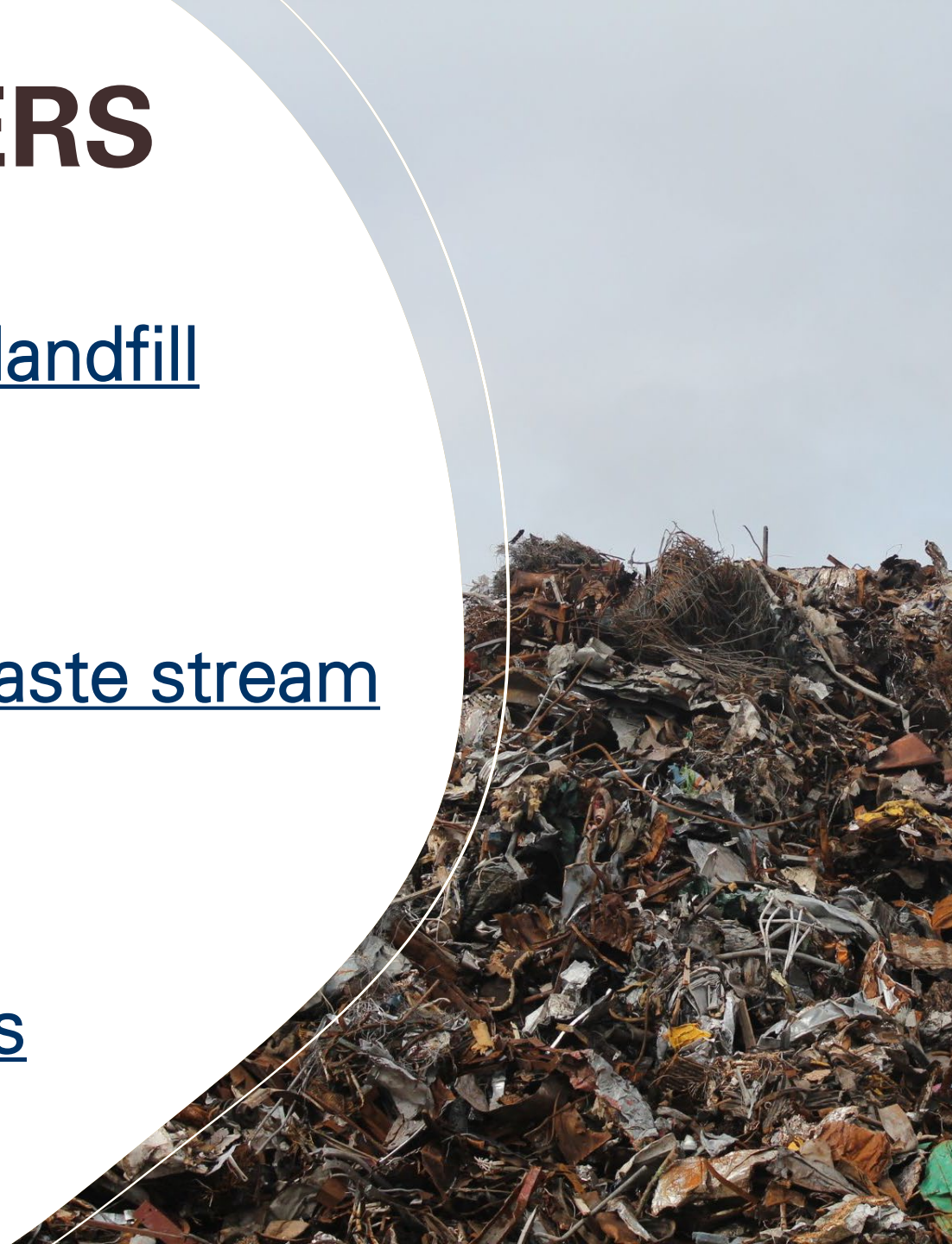
- ~250 tons of food waste (<2% of waste stream)

SOLID WASTE BARRIERS

CBJ does not own/control the landfill

CBJ does not own/control Juneau's waste stream

CBJ does not control trash fees



SOLID WASTE BARRIERS

RecycleWorks is near capacity

- Diversion is ~7% annually
- Approaching max capacity in the recycling/HHW buildings
- Staffing constraints

Organic waste

- Juneau needs to prevent and divert more organic waste
- Total composting will be limited by the amount of carbon sources we can secure

Seasonal population

- Large surpluses of furniture, mattresses, and other household items every year

Rising fuel costs = rising recycling costs

5. Sustainable Community

a) Implement a zero waste or waste reduction plan, including development of the Zero Waste Subdivision.

WHAT IS ZERO WASTE?

“The conservation of all resources by means of responsible production, consumption, reuse, and recovery of products, packaging, and materials without burning and with no discharges to land, water, or air that threaten the environment or human health.”

Zero Waste...or pretty darn close



WHAT ELEMENTS GO INTO A ZERO WASTE PLAN?

**Creating
Diversion
Goals**

**Maximizing
existing
programs**

**Building new
infrastructure/
programs**

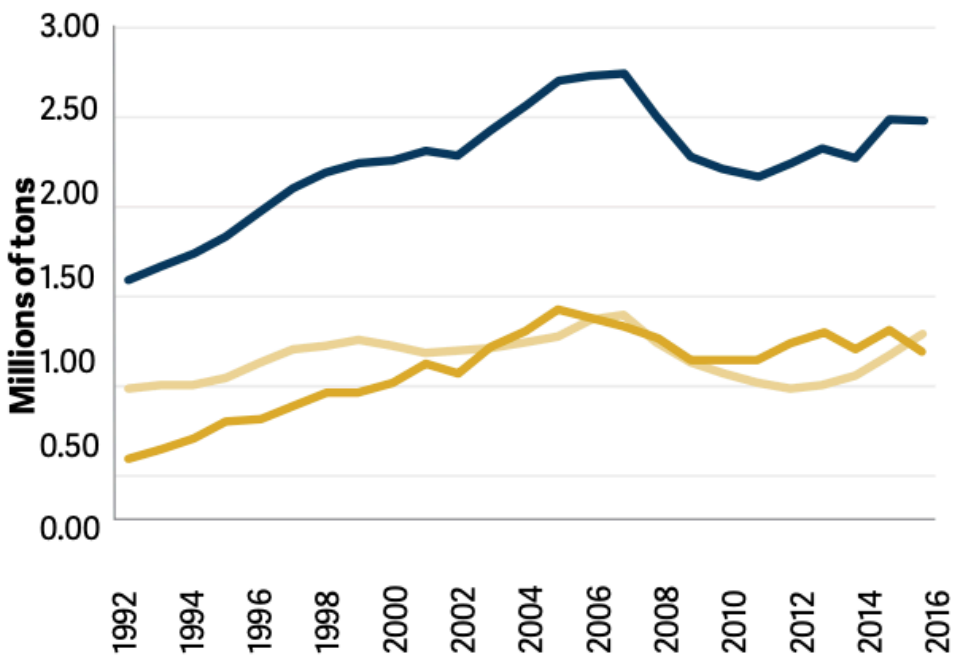
**Enacting
waste policies**

Remember: changes must be systemic and enduring!

PORTLAND, OR & ZERO WASTE

THE METRO REGION'S WASTE, 1992-2016

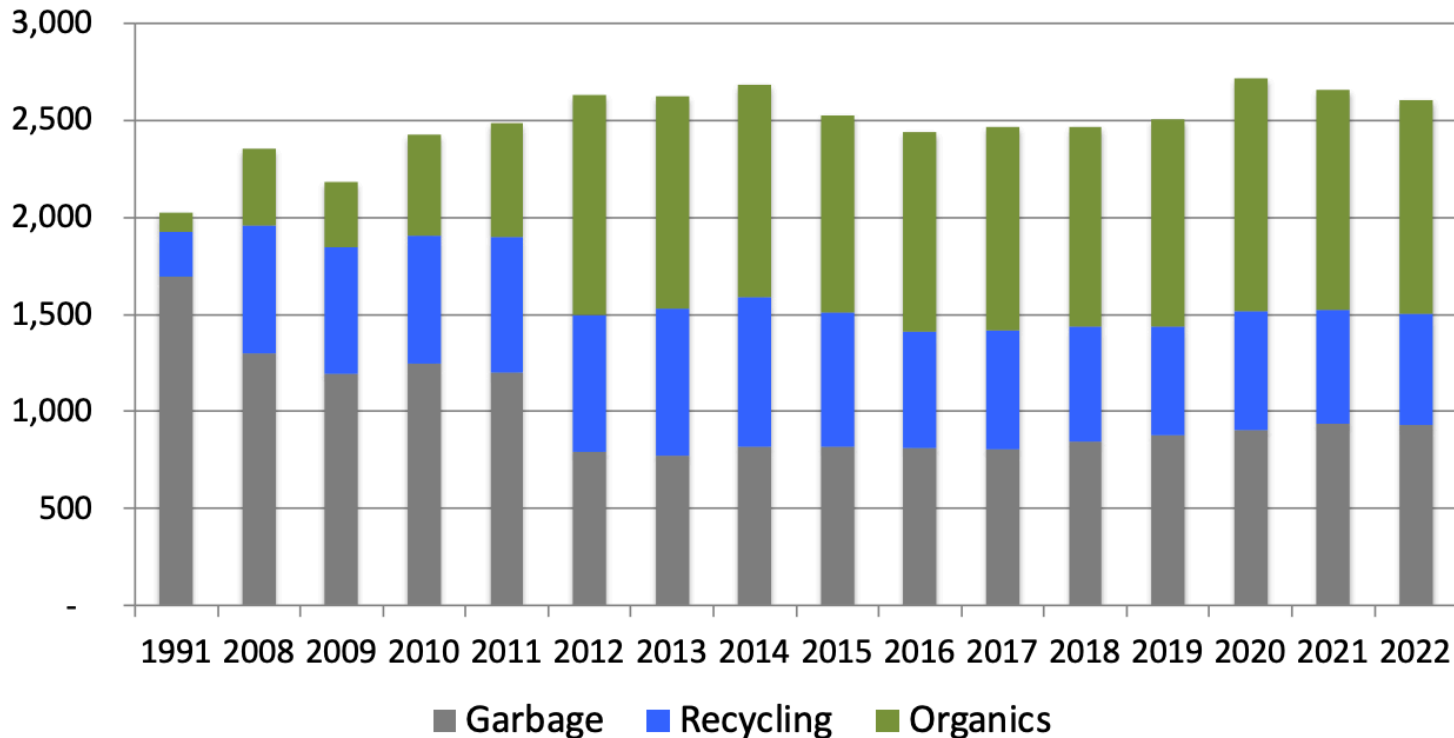
Millions of tons of waste generated, disposed and recovered.



- **Generated**
- **Disposed**
- **Recovered**

2030 Metro Regional Waste Plan

Figure 1
Curbside Garbage, Recycling, and Organics
(lbs per year per household)



- **Garbage**
- **Recycling**
- **Organics**

2023 Resident Curbside Collection Service Rate Study

PORTLAND, OR & ZERO WASTE

- **Prior to 1983:** garbage collection was largely unregulated, and based on the free market.
- **1983:** the Oregon legislature mandates that every community provides recycling
- **1991:** the Oregon legislature adopts the Opportunity to Recycle Act to increase recycling.
- **1992:** Portland adopts a franchise and permit system for waste hauling and bans Styrofoam
- **1996:** Portland requires commercial sector to recycle at least **50%** of their waste;
- **1997:** increases the goal to **60% by 2005**.
 - Portland did not meet this goal
- **2005:** the City developed the Portland Composts! Program and requires every garbage and recycling company to offer composting collection.
- **2006:** City staff create a solid waste management plan that includes:
 - Increasing the citywide recycling rate to 75% by 2015.
 - Achieving zero growth in the waste stream.
 - Diverting **50 – 75%** of construction and demolition waste.
- **2009:** the City adopts the Climate Action Plan
 - Reduce total solid waste generated by **25%**.
 - Recover **90%** of all waste generated.
- **2011:** all residences with curbside collection are provided weekly recycling and composting collection and every-other-week garbage collection.
- **2016:** the City adopts a deconstruction ordinance requiring certain projects to be deconstructed vs. demolished.
- **2012:** Portland prohibits single-use plastic bags. Paper bags have to be made with at least 40% post-consumer recycled fiber.
- **2019:** updated this policy to add 5-cent minimum charges on paper and reusable plastic bags, to comply with the State of Oregon Single-Use Bag Ban.
- **2021:** Oregon Recycling Modernization Act
- **2023:** large food service businesses in the metro area will be required to divert or reduce the majority of their food waste
- **2030 Objective:** Recover **90%** of waste from city operations by 2030

MISSOULA, MT & ZERO WASTE

Missoulian Search Missoulian

E-edition News Obituaries Opinion Sports Life & Entertainment Jobs Wildfires 31° Partly Cloudy

Recycling center in Missoula closes public drop-off

David Erickson Dec 6, 2023 15

The Republic Services recycling center at 3207 W. Broadway has closed its public drop-off services without much in the way of explanation.

The company installed concrete barriers at its public entrances recently.

"The recycling drop-off area is experiencing a temporary operational closure," the company said in a statement. "We apologize for the inconvenience and will inform the community as soon as it is ready to reopen."

Missoulian Search Missoulian

E-edition News Obituaries Opinion Sports Life & Entertainment Jobs Wildfires 31° Partly Cloudy

Garbage wars

Garbage wars: Battle over Missoula's trash gets 'ugly'

David Erickson Jun 14, 2023 26

KTVH HELENA, MONTANA

NEWS > MONTANA NEWS

Upstart hauler seeks – again – to crack Missoula garbage monopoly

Hearing starts Monday before state PSC



Photo by: MTN News

Republic Services is the only permitted garbage-hauler in Missoula County.

By: Mike Dennison

Posted at 9:15 AM, Oct 17, 2021 and last updated 7:15 AM, Oct 17, 2021

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2023 SOLID WASTE GRANT SUMMARY

EPA Solid Waste Infrastructure for Recycling (SWIFR) – new program

- \$4 million for a composting facility
- Unsuccessful – only 25 community-level projects were funded nationwide

EPA Recycling Education & Outreach (REO)

- ~\$600,000 to create an outreach program around food waste reduction and diversion
- Unsuccessful

USDA Cooperative Food Waste Reduction Pilot Project Agreement

- Partnered with Juneau Composts! and Sustainable Southeast Partnerships
- \$400,000 for site improvements for Juneau Composts! and a windrow turner
- Unsuccessful – this was CBJ's second time applying

MUNICIPAL COMPOSTING SITE

- In 2023, CBJ was awarded \$2.5 million in Congressionally Directed Spending (CDS) from Sen. Murkowski
- The location of the future facility will be in the former Lemon Creek gravel pit behind Costco
- CDS is like a grant in reverse – we are now going through the process with EPA to receive the funds, hopefully in Spring of 2024

The funding **WILL** get us:

- A complete compost facility design
- A high-level layout of the Zero Waste Subdivision (ZWS)
- Utilities
- An improved road
- Stormwater drainage and control
- A concrete pad
- A bear-appropriate fence

The funding will **NOT** get us:

- A finished composting facility
- Equipment
- Additional designs or plans for other ZWS uses

Path towards Zero Waste

Follow the journey of waste management in the Juneau community.

 City & Borough of Juneau, Alaska

January 10, 2024

NEW WEB RESOURCES



The screenshot shows the website header with the City and Borough of Juneau logo and navigation links: Admin, Engineering, Public Works, JCOS, and Contact Us. Below the header is a navigation bar with three tabs: WASTE PLANNING (active), WASTE HISTORY, and RECYCLING. The main content area features a large blue header for "SOLID WASTE PLANNING" and a red sub-header "WE NEED TO TALK ABOUT OUR TRASH". A paragraph of text follows, discussing the Capitol Disposal Landfill. Below this are two columns: "JUNEAU SOLID WASTE IOI" with a "Slideshow Here" placeholder, and "NEWS & EVENTS" with a list of five news items and a "MAILING LIST" button. At the bottom, there is a "ZERO WASTE PLANNING & ACTION STATUSES" section with three rows of placeholder text, and a footer with "DOCUMENT LIBRARY" and "FAQ" links.

CITY AND BOROUGH OF
JUNEAU
ALASKA'S CAPITAL CITY

Admin ▾ Engineering ▾ Public Works ▾ JCOS Contact Us

WASTE PLANNING WASTE HISTORY RECYCLING

SOLID WASTE PLANNING

WE NEED TO TALK ABOUT OUR TRASH

If you live in Juneau, you've seen the landfill. Built in the 1960's, the Capitol Disposal Landfill (formally the Channel Landfill) has been a growing presence in Juneau ever since. It's difficult to know when the landfill will close, but the best estimate is 10-20 years.

JUNEAU SOLID WASTE IOI

Slideshow Here

NEWS & EVENTS

- News Item 1
- News Item 2
- News Item 3
- News Item 4
- News Item 5

MAILING LIST

ZERO WASTE PLANNING & ACTION STATUSES

Title of Action: Description of Action

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DOCUMENT LIBRARY FAQ

juneau.org/engineering-public-works/solid-waste

CBJ SOLID WASTE HISTORY

1960s: Landfill Opens; 1970s: RCRA

1980s: The Assembly is concerned about the landfill's size and environmental issues. They fund a Solid Waste Management Study, which looks at landfill, recycling, methane capture, and incineration options. Lemon Creek gravel pit is identified as a good location for future solid waste management activities. Friends of Recycling form in 1989 – Juneau's first recycling program.

1990s: Channel Corporation offers to sell the landfill to the CBJ. The Citizen's Advisory Committee on Waste Management looks into the issue and recommends they do not. CBJ funds a landfill feasibility study; 2 of the top 3 locations are in Lemon Creek. Waste Management (WM) purchases the landfill. Lemon Creek gravel pit remain the preference for CBJ solid waste activities, but is still actively mined. The fundamental question is: what should CBJ's role be in solid waste management?

2000s: a recycling center and HHW facility are built. CBJ enacts 'trash bear' ordinances. SE Conference does a regional solid waste study, but transportation costs and logistics are the major barrier. CBJ funds a new Solid Waste Management Strategy in 2008, which outlines several infrastructural and policy changes. WM shuts its two incinerators – reducing the life of the landfill from **100 years to 30 (2036)**. WM attempts to purchase land to expand the landfill – this fails. Prices for recycling tank, so CBJ has to restructure how recycling is funded. Lemon Creek gravel pit remain the preference for CBJ solid waste activities, but is still actively mined.

2010s: CBJ staff and the Assembly attempt to follow-through on the recommendations in the 2008 study. They attempt to enact universal trash pickup – this fails. They attempt to acquire the public utility for waste hauler – this also fails. CBJs biosolids incinerator shuts down and some waste is sent to the landfill. It causes major odor issues and takes up too much room in the landfill, so it is sent south to Oregon. CBJ staff look at increasing recycling and adding a composting facility – these items fail to gain traction. The recycling center moves to the landfill.

2020s: JCOS recommends Zero Waste to the Assembly. The Assembly adopts a goal to create a zero waste plan. CBJ is awarded \$2.5 million for a municipal composting facility. Lemon Creek gravel pit is the desired location for zero waste activities.

JCOS Sustainability Session

JUNEAU SOLID WASTE Q&A

Featuring CBJ Staff:

Dianna Robinson, Environmental Project Specialist
Stuart Ashton, RecycleWorks Operations Manager

MENDENHALL VALLEY LIBRARY -OR- ZOOM
FEBRUARY 20TH, 2024
6:30PM - 7:30PM



**IF YOU MISS THIS EVENT, WE WILL BE HOLDING A
SECOND IN DOWNTOWN JUNEAU!**



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