SOLID WASTE SERVICES

SWS
Materials Recovery Facility and Merrill Field Update
Materials Recovery Facility

- Extend landfill life through material diversion
- Realize efficiencies and reduce:
  - Vehicle miles
  - Diesel consumption
  - CO2 emissions
  - Driver time, wear and tear on vehicles and highway infrastructure
  - Landfill gas and leachate production
Materials Recovery Facility Entrance

Thank you for putting less in the landfill and improving local soils!

Central Wood Lot  re:Made  Organics  Plastics

PILOT Program
Plastic Diversion

ALASKA PLASTIC RECOVERY
PUBLIC SORT
#1, #2, #5 PLASTICS
Post Industrial and Post Consumer Plastics
• Phase One: Opening this week potentially, the public will sort their own plastics

• Phase Two: Starting in a few weeks, APR has one staff who will be on site to sort plastics, answer questions, and swap out super-sacks and monitor progress.

• Phase Three: This Fall, APR to have electricity to run equipment to make loads more efficient when transporting to the Mat-Su.
• Opened in May, commercial loads opening soon Thursday, Friday, and Saturday through October
• Tracking feedstocks, volume, traffic etc.
• Food scraps, yard waste, herbivore manure, coffee grounds, wood chips etc.
• Organics transported to the valley used as soil amendment
• Residential 5x8 load $20
• Larger residential and commercial organic loads $48.64/Ton
• Pilot program subsidized by the recycling surcharge
Expanding Operations

SWS ORGANICS PROGRAM

May 2023 transferred: 59.38 Tons
May 2024 transferred: 144.11 Tons
Wasted Food Scale
How to reduce the environmental impacts of wasted food

**DO**

**Prevent Wasted Food**
- Produce, buy, and serve only what is needed

- Donate
  - Rescue and redistribute food to people
  - or
  - Upcycle
  - Repurpose food for human consumption

- Feed Animals
  - Turn wasted food into animal feed
  - or
  - Leave Unharvested
  - Leave crops on the field for grazing or plow them in

**AVOID**

**Send Down the Drain, Landfill, or Incinerate**
- with or without energy recovery

- Anaerobic Digestion
  - (with disposal of digestate/biosolids)
  - Break down wasted food to create energy
  - or
  - Apply to the Land
  - Incorporate raw wasted food into the soil

- Anaerobic Digestion
  - (with beneficial use of digestate/biosolids)
  - Break down wasted food to create energy and a soil amendment

October 2023
• Opening the “Central Wood Lot” during MRF operations Thursday, Friday, Saturday June - October

• Residential 5X8 loads only: $20/load Commercial loads must go directly to Anchorage Regional Landfill

• Check website for restricted items and sizes

• Partnering with Anchorage Fire Fire Department
Air Quality Permit for the Anchorage Regional Landfill

Compliance Order by Consent

1. Install Gas Collection and Control System 4,000CFM
2. Surface Emissions Monitoring
3. Supplemental Environmental Project:
   • $271K in project spend related to emissions reduction
   • Deep Injection Well or Evaporators
   • Pivot to MRF Project, will notify ADEC now
Merrill Field Update
Merrill Field
Dewatering and Landfill Gas Monitoring

Landfill Operated in the 1940's and Closed 1987, approximately 200 acres

Gas monitoring continues stepping up with gas probe.

Dewatering well installed this year to relieve pressure.
Merrill Field / 15th Ave
Groundwater Seepage

Looking west from lift station at approx 9:35 AM on 11/22/13
Merrill Field Landfill (MFL) Leachate Seep Mitigation Support – ($146,000)
- Evaluation of a test well to reduce seepage from the toe of the MFL site along 15th Avenue.
- Seepage causes glaciation on 15th Avenue, which has been identified as a significant traffic and pedestrian hazard in winter.
- ADEC has also expressed concern over the seepage and has indicated that they also receive complaints regarding odors which are sometimes experienced along 15th Avenue.
- SCS will evaluate a test well to reduce elevated water levels present within the old landfill. If effective, SCS will develop a more comprehensive to reduce seepage and landfill gas emissions.

Merrill Field Landfill (MFL) Gas Migration Probe Installation – ($20,000)
- Subsurface boring and installation of an additional gas migration monitoring probe to the existing gas migration monitoring network.
- Required by the ADEC in correspondence dated October 10, 2023, to be completed during summer of 2024 as an additional location to be monitored to detect if landfill gas is migrating beyond the property boundaries.

Total from Equity $166,000
Kelli Toth
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