

"Out of the Box" Waste Prevention and Practical Plan and Outreach

Brian Olson

Beltrami County Solid Waste Administrator & Public Works Safety Coordinator

Beltrami County

Census: 2010: 44,442

2018: 46,117

2019: 46,403

*** (Approximately 60% population lives within a 10 mile radius from Bemidji)

Area: 3,056 sq miles

- Beltrami County has over 116,000 acres of lakes and 459,000 acres of state forest lands. It is comprised of 86 townships and contains portions of two Indian reservations, Red Lake and Leech Lake.
- Beltrami County was named after the Italian, Giacomo Beltrami, an early explorer of the area. In 1887 Beltrami County was part of one of the state's original nine counties: Benton, Dakotah, Itasca, Ramsey, Mahkahta, Pembina, Wabasha, Wishington and Wahnata. The County was created in 1866 and organized in 1896 with 137 townships.



History:

- Solid Waste Services contracted out (Facility Ownership Changed from Public to Private)
- 2015 Environmental Services Director Retired
 - Solid Waste was part of Environmental Services
- 2015 New Environmental Services Director didn't want to do Solid Waste tasks, County Engineer offered to take Solid Waste and formed a County Public Works Department.
- 2015 Board of Commissioners decided to build a Transfer Station (CAP Grant with Partner Counties)
- 2016 New Solid Waste Administrator, Public Works GIS Specialist, and Public Works Safety Coordinator Position
 - Department of 1 employee
 - First Day: New storage room turned into Office
 - File storage boxes filled the office with old Solid Waste Files.
 - Told Solid Waste Duties shouldn't take up much of my time.
 - Once you get your office arranged you will take over the Solid Waste Billing (1,100 commercial accounts)
 - Figure it out as you go.
- 2016 Transfer Site Review and Building Design

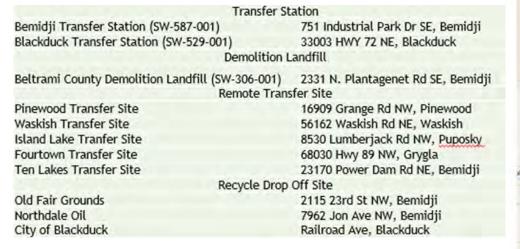
History :

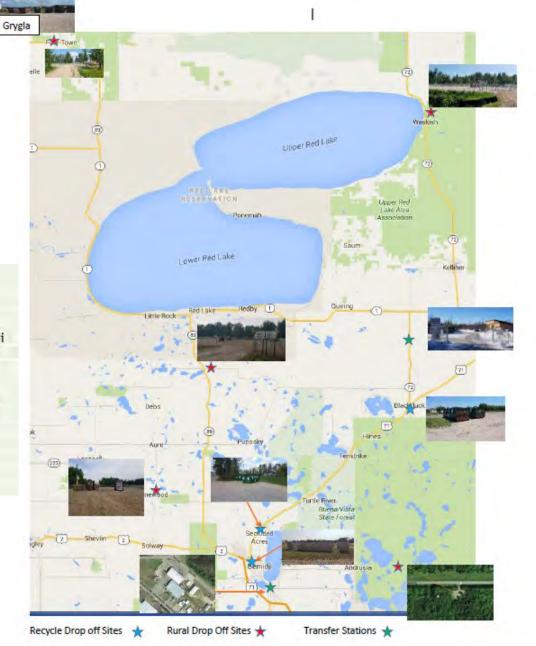
- 2016 Current Transfer Station Owner lobbied to stop the CAP Grant, due to stranded asset.
- Aug 2016-July 2017 Purchased current transfer station (Stranded Asset)
- 2017 New Solid Waste Support Tech Department of 2 employees
- New Lease agreement, service agreement July 2017 to December 2019
- 2017-2018 Remodeled both Bemidji and Blackduck Transfer Station/New MPCA Permits (CAP Grant)
- 2018 Moved and remodels 3 of the Remote Transfer Sites
- 2018 Took over Transfer Trailer Hauling Contract, and added Polk County to the Hauling Contract
- April 2018 Started up an AG/Boat Wrap Collection Program
- 2018 Renew Demolition Landfill Permit that is going to expire, re-permitted Jan 2019
- 2019:
 - Feb-Single Sort Recycling
 - Remodel last 2 Remote Transfer Sites
 - Add Hubbard County to the Hauling Contract
 - Continue Red lake Ice fishing Human Waste Diversion Effort
 - Final Cover at Demolition Landfill

History :

- 2019:
 - Continue to look at more recycling opportunities within the Bemidji City Limits
 - County Decided to take over operations at the end of service contract
 - Hired 1 employee September 2019 to help with transition
 - Hired 12 more employees on Dec 16, 2019
 - Facility Lease ended
- 2020:
 - Take over facility operations (Dec 16, 2019)
 - 2 Transfer Stations
 - 6 Remote Transfer Sites
 - 3 Remote Recycle Site
 - 1 Demolition Landfill
 - New remote Battery Collection Program
 - Design Recycling Building and Office Remodel
 - Finish Landfill Final Cover
 - Design and Build Reuse Area
 - Decrease contamination of all waste streams (Education, Enforcement)
 - Update 40 year old Solid Waste Ordinance
 - Maintain Operations (Revenue –vs- Operations) COVID
- 2021:
 - Maintain Current Operations

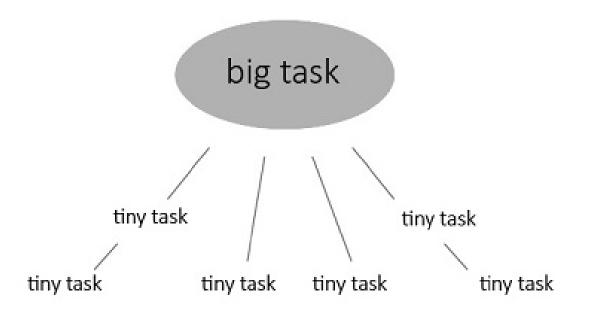
Solid Waste department Foot Print





Prevention (Big Task) more then 1 County can take on it's own?

- Disposable Society
- Convenience
- Products are less durable
- Influence Behavior??
 - Culture/Social/Personal
 - More is better
- Product "End of Life Plan"
- Messaging
 - Incentives
 - Educate
 - Opportunity
- Economics



Partnerships (Reduce Costs, and provides resources that may not be available otherwise)

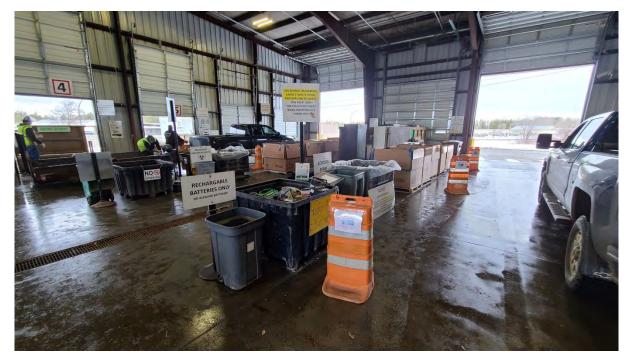
- Regional:
 - Polk County 6 County Coalition
 - Joint Powers Board
 - Grants
 - Northwest Mn Household Hazardous Waste Facility (Supports 10 Counties)
 - Joint Powers Board
- Local:
 - County Solid Waste Committee
 - Bemidji State University Environmental Studies
 - Sanford Green Committee
 - Habitat for Humanity (Restore)

Bemidji TS Self Haul Daily Traffic

500 to 700 vehicles







Blackduck TS

Daily Traffic 50 to 90 Vehicles







2020 Textile Diversion Program:

- Partnership with Disabled American Veterans (DAV)
 - DAV has other sites as well but convenience is everything, 1 stop shop....



2020 Restore/Reuse Area (Bemidji and Blackduck Transfer Station)

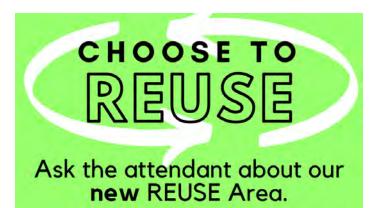








- Reuse Area Rules:
 - Sign Waiver
 - Only 4 Items at a time, track who and what
 - Soft Opening (Due to COVID)
 - Open by appointment only
 - Tuesday's: Habitat for Humanity (Restore) comes and gets as much stuff as they want from the Reuse Area.
 - 2020: 580 Items Diverted, plus 109 bikes



Donate your REUSABLE items!

Don't send good items to the landfill!

- The Following items are NOT ACCEPTED in the REuse Area:
 - Car Seats
 - Mattresses
 - Industrial Chemicals and Hazardous items
 - Clothing, blankets, or other textiles (please donate usable textiles)
 - Computers and fax machines
 - Electronics
 - Food (Please bring to local food shelf)

ACCEPTABLE Items for the Reuse Area

- Bikes
- Tools and hardware
- Toys and games
- Books
- Gardening supplies
- Useable Paint
- Misc. Household Hazardous Waste (Example: Cleaning Supplies) in original labeled container
- Etc.....Ask Solid Waste Employee

Beltrami County Demo Landfill Compost Area



Yard Waste Compost:

Average: 1,300 CY per year

Beltrami County's AG Wrap/Boat Wrap Program



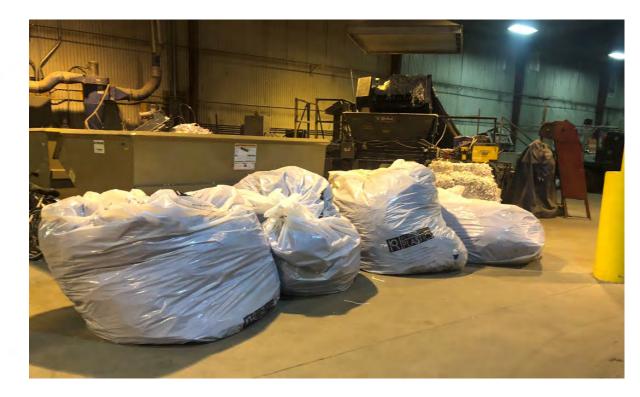
Do not include twine, vents, zippers, supports, straps, ropes or trash of any kind. Do not include felt or fabric coated plastic boat wrap from factory.

Bags are available at both the Bemidji and Blackduck Transfer Station

For more information call the Beltrami County's Solid Waste Office at 218-333-8187 or visit the Beltrami County's Website (Solid Waste)

Program hurdles: "Contamination, program changes"

- Sep 2018 Revolution Plastic stopped accepting Bale Wrap.
- Just started the program in 2018, and then the program changes without warning. Purchased \$3000.00 of recapture bags.
- Didn't find out until Spring 2019 about the program change:
 - We had collected around 140 full recapture bags full of Bale Wrap, that ended up going to the landfill .



Still the Right thing to do (economics)???

- Recapture Bags are still Provided for Free for program participants,
 - received more in 2020 from RAM Grant
- Would like to find a market for Bale Wrap, Currently just send it to the Landfill.

**Accept, Bale, and Store primarily Boat Wrap currently

Website lists Local Non-Profit Reuse Sites:

Bring your Recycling donations these locations:

Habitat for Humanity ReStore 1357 Exchange Ave SE Bemidji, MN 56601 218-444-6398

Seventh Day Adventist Clothing Depot

810 15th St NW Bemidji, MN 56601 218-751-1985

Food Shelf

1260 Exchange Ave SE Bemidji, MN 56601 218-444-6580

Churches United

702 Beltrami Ave NW Bemidji, MN 56601 218-444-1380 St Philip's Clothing Depot 125 8th St NW Bemidji, MN 56601 218-444-3835

Good Will 407 Beltrami Ave NW Bemidji, MN 56601 218-759-2147

St. Mary's Mission Store

Hwy 1 Red Lake, MN 218-679-3615

To get ride of larger items such as motor vehicles, campers, mobile homes, etc. contact your local auto salvage yard.



Consumers: change of philosophy?

Non-profit junk business focus on salvaging valuable resources...

Source Separated Organics Composting Program

Shared grant with Polk, Hubbard, and Clearwater County:

Beltrami County Program:

Received Equipment in 2019

• 5 Filter Units/5 Receiver Containers/2 Cart Tippers

Green Corps Member supported 2019-2020 Program Year

Available at Both Transfer Stations:

- Participation Agreement
- Retrofitted all receiver containers in 2020
- Participants:
 - Bemidji State University
 - 3 Businesses
 - 2 Charter Schools
 - 82 Residents



Tons delivered to Polk County Composting Facility: 2019: 3.15 Tons 2020: 18.38 Tons

2019 Pumpkin Smashing

BELTRAMI COUNTY SOLID WASTE POMPKIN SMARKIN 2 NOVEMBER 2019 9 AM-1PM

GO GREEN THIS HALLOWEEN AND COMPOST YOUR PUMPKIN!

The Bemidji Transfer Station will collect & SMASH pumpkins on Nov. 2. @ 751 Industrial Park Drive Bemidji Dried corn, hay, straw and mums are also accepted. Help divert pumpkins from landfills. Pumpkins are full of nutrients for soil!

Remove all decorations candles, yarn, stickers, googly eyes. Acrylic & washable paint are OK, compostable

CAN'T ATTEND? SIGN UP FOR THE COUNTY COMPOST PROGRAM AND DROP OFF YOUR PUMPKINS + FOOD SCRAPS YEAR ROUND FOR MORE INFO CALL AILI - 218-333-8297







The event:

290.7 lbs of Pumpkins Diverted from a landfill.

3 more residents signed up to participate in the Compost Program

3 more residents look information about the Compost Program

Battery Fires?



• Problem: Starting Fires at processing facilities, what can we do?





Partnerships: Sandford Health Green Committee participant.

• 2017 started to work with local healthcare facility to develop a Sharps disposal program as part of their community outreach program, in December 2018 it was fully operational.



Sharps Drop Box Now Available At Sanford Health Bemidji

Rachel Johnson - Dec. 12 2018



A sharps drop box for used or unwanted medical needles and lancets is now available at Sanford Health in Bemidji.

This is Bemidji's only sharps drop box and offers a safe and convenient way to dispose of used medical needles and lancets.

The box is located at Sanford Health Bemidji at 1611 Anne Street NW in the patient entrance. People may drop off their sharps seven days a week from 7:30 a.m. to 7:30 p.m.

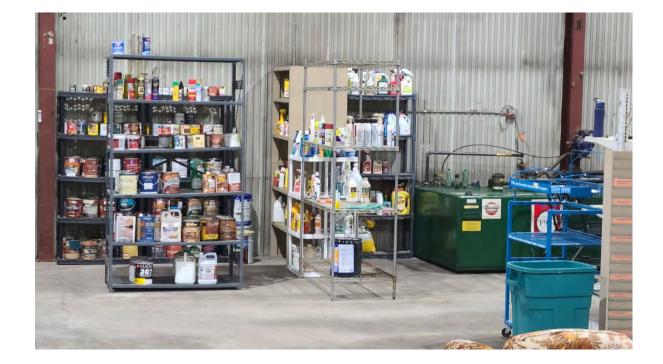
Using a chute loading door, contents are secured in the drop box and cannot be removed unless the service door is unlocked.

The contents of the drop box will be handled by trained staff and transported to licensed waste haulers.

Product Exchange:

Operational Changes made it possible to track quantities:

2020: 202 gallons of paint was reused



Repair Old Appliances Program

- December 2018 Signed agreement with local used appliance dealer/repairman
 - Fix repairable appliances and Sell
 - Approved by County Board
 - Liability Insurance
 - Signed Reuse/Fix it Agreement and Release of Liability
 - Professional Repair Business

2018 Results: 85 Appliances2019 Results: 68 Appliances2020 Results: 91 Appliances

- 29 Washers
- 29 Dryers
- 28 Fridges
- 5 Freezers

Shingle Program



Started in 2019: 2019: 3040 CY 2020: 2084 CY

Reduces volume in Landfill

Uses: Dust Control, Stabilization





Example: Soil Stabilization



Concrete diverted from Landfill: Beneficial Use

- 2018 started to look at a contractor to crush concrete, no one could tell me when the last time the pile was crushed (3yrs is the storage limit, per MN Rule 7035.2855)
- 7436 Yards Crushed in 2019, 2020 material was used for County Highway Project.



How do we try and reach the Community

- Presentations/Education:
 - BSU Environmental Studies (Class presentations)
 - Townships
 - Transfer Station Tours
 - Briefing the Boards
- Marketing
 - Website
 - Lakeland News
 - Radio
 - Local Paper
 - TV Weekly
 - Local Magazine Publication
 - 2021 Currently a Monthly Radio Segment (Chat a bout)
 - 2020 Tried On-line sponsored content
 - Earth Day Publication (2 Page Flyer)
- Enforcement



WE TRÝ TO USE A MULTIMEDIA APPROACH



It's easy to compost: 1. sign up. 2. collect your

food scraps. 3. drop off at the Transfer Stations.

find out more and sign up a

218-333-8297

Beltrami County Solid Waste www.co.beltrami.mn.us Compost click on Solid Waste tab



Wishcycle (verb): the act of placing non-recyclable items in the recycling with the hope they will be recycled. my wax lining makes me not recuclable me neither HOPE. can't recycle any I jam up the of my kind recycling equipment .. · io 10

Non-Recyclable

STYROFOAM . GARDEN HOSES **#3-7 PLASTICS • PLASTIC BAGS** FROZEN FOOD BOXES • STRAWS #3-#7 PLASTIC CUPS . GLASSWARE TO-GO COFFEE CUPS . PIZZA BOXES PLASTIC UTENSILS . CERAMIC DISHWARE WAXED CARDBOARD • TOOTHPASTE TUBES

WWW.CO.BELTRAMI.MN.US 218-333-8187

BATTERIES DON'T BELONG IN YOUR HOME **RECYCLING OR TRASH!**

Batteries in your recycling or trash can start a fire. Take to retail or Transfer Station for hazardous waste drop-off.



www.co.beltrami.mn.us

Attention Land Owners & Contractors

Land owners and contractors MPCA Requires a Pre-renovation or Demolition Requirement for any institutional, commercial, public, industrial or residential structure, installation or building (This includes any, structure or building containing condominiums or individual dwellings operated as a residential cooperative. but excluding residential buildings having four or fewer dwelling units.)

Refer to the MPCA website for the most updated information.

· Need to have an Asbestos inspection done by a qualified inspector. · Must notify MPCA 10 days prior to Demolition. Must do a Pre-Demolition Environmental Checklist

Pre-renovation or Demolition **Requirements** (Residential)

Common wastes that must be removed before demolition (Good Practice use the Pre-Demolition Environmental Checklist on the MPCA Website) an asbestos inspection is not required. If you are still concerned about asbestos you can have the structure inspected but there is no requirement to submit paperwork to MPCA for residential building having four or fewer dwelling units.

 Appliances Ashestos Electronics · Environmental and safety controls · Hazardous Waste + Lead-containing items Lighting Components · Oils + Refrigerants and halons Solid Waste Submersible well pumps

See MPCA Demo Checklist on the MPCA Website: https://www.pca.state.mn.us/waste/construction-and-demolition-waste

Any questions, please call 218-333-8187

DID YOU KNOW YOU CAN RECYCLE YOUR SHRINK WRAP BOAT COVER!



Clean & dry shrink wrap material is accepted at the Bemidji or Blackduck Transfer Stations *Note: shrink wrap does not belong in home recycling. Collected separately at Transfer Stations. www.co.beltrami.mn.us 218-333-8187

DON'T TRASH COMPOST ME.



Proper Disposal of e-cigarettes Beltrami Household Hazardous Waste

Must dispose of at the Bemidji or Blackduck Transfer Station, at no cost to Beltrami residents.



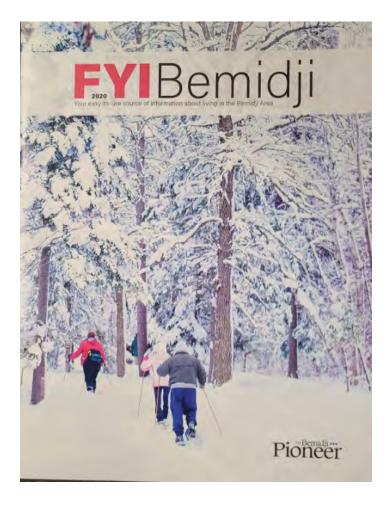
E-liquid or juice may contain nicotine. vegetable glycerin & propylene glycol and should be treated as hazardous waste.

Batteries need to be recycled at the HHW facility where they will be sorted & processed and can be

Bemidji Transfer Station **Blackduck Transfer Station** 751 Industrial Park Dr. 3303 Hwy. 72 NE. Bemidii | 218-333-8187 Blackduck | 218-835-6961 www.co.beltrami.mn.us click on Solid Waste tab

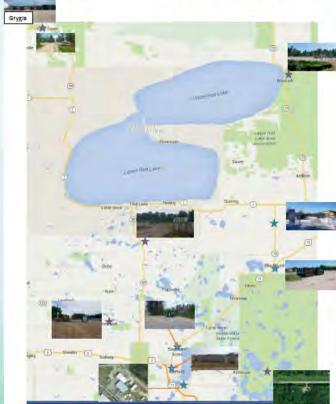
Back Cover FYI Magazine

Free Publication!!



BELTRAMI COUNTY RECYCLING





Recycle Drop off Sites 🛨 Rural Drop Off Sites 🛧 Transfer Stations 🛧

WHAT'S THE COST? COMMERCIAL AND RESIDENTIAL CUSTOMERS

Funding of Solid Waste Program (Disposal Fee) Residential, single-family homes, duplexes, apartments, and mobile home: Property Tax Special Assessment On: \$152 per year (that is only \$1266 per month to process, and dispose of all your waste, except Demolition Debris and By-Pass Material) \$114 (Seasonal)

Commercial (Business) OR Beltrami County Non-Resident Waste: Volume Based Billing (Monthly/Quarterly) Commercial Businesses will see two invoices: . I from Beltrami County Solid Waste for disposal. • 1 from Commercial Hauler (American Disposal, Waste Management, Jon's Refuse) A Commercial Business can self-haul as long as you register with the County Solid Waste Department

Blackduck Transfer Station

Acceptable Items Mixed Municipal Solid Waste Demolition and Construction Waste less than 5 yards Recyclable Containers (Type 1 and 2) Batteries Appliances Fluoresent Bulbs & Ballasts Electronics Tires Household Hazardous Waste Carpet/Furniture Used Oil and Filters Scrap Metal Gasoline Antitreeze

Not Acceptable Commercial-Hazardous Waste Commercial-Used OII & Filters **Commercial-Gasoline** Commercial-Antitreeze

Beltrami County Solid Waste 751 Industrial Park Dr. SE Bernidji, MN 56601-5423 • 218-333-8187 | 218-333-8105 • www.co.beltrami.mn.us click on Solid Waste tab

Recycling Transfer Sites Acceptable Items Type 1 and 2 Plastic Containers Glass Containers Metal Containers Fiber (Paper/Cardboard) Products

Not Acceptabl Scrap Metal other types of plastic Card board with wax coating all other tierns not listed as acceptable Household Hazardous Waste

Bemidil Transfer Station Acceptable Items Mixed Municipal Solid Waste Demolition and Construction Waste less than 1 yard Recyclable Containers (Type 1 and 2) Batteries Appliances Fluoresent Bulbs & Ballasts Electronics Tires Household Hazardous Waste Carpet/Furnature Used Oil and Filters Scrap Metal Gasoline Antifreeze

Not Acceptable Commercial-Hazardous Waste Commercial-Used OII & Filters Commercial-Gasoline Commercial-Antitreeze

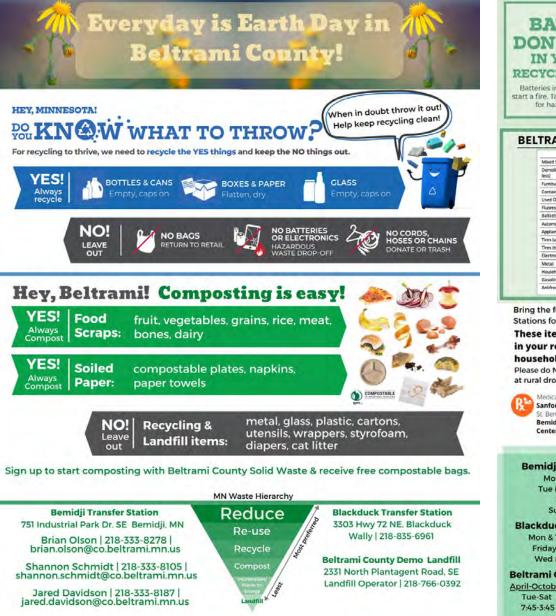
Remote Transfer Sites Acceptable Items Residential Household Garbage Type 1 and 2 Plastic Containers **Glass Containers** Metal Containers Fiber (Paper/Cardboard) Products

Not Acceptable Scrap Metal Demolition Debris Appliances Electronics Non Bumable Waste Household Hazardous Waste



Updated Yearly-Earth Day Flyer

April 22nd



BATTER DON'T BEJ IN YOUR HU RECYCLING OR Batteries in your recycling start a fire. Take to retail or T for hazardous waster BELTRAMI COUL	LONG OME TRASH! or trash can ransfer Station drop-off.	FEE SCHEDU	Land Land were an Demitten Roga Industria orrest Industa a deale excluding relate Refer to io website updated . Bed to have .	Contraction Contr
DELINAMI COU	Residential	Commercial	to Demolition	
Mixed Municipal Solid Waste	Free	See Attendant	Must do a Pre Environmental	Demolition
Demolition & Construction (5 yar		\$14/ cubic yard (CY)	Environmenca	Checked
less]	us or staycobic yard	214), cooke Asto (e.i.)	Dra comos	ation or Demolition
Furtiture/carpet/bypass material	\$24/CY or \$140/to	an \$24/CY or \$140/ton		
Container & Fibers	Free	Free	Requ	irements
Used Qil & Filters	Free	Not Accepted	(Residenti	al)
Fluorescent Bulbs	Free	0.25 each	Common westes 11	ait must be removed
Ballasts	Free	\$1 per pound	Defore demotion Pre-Demotion En	Sood Practice use the some state of the source of the sour
Automotive Batteries	Free	Free	the MPCA Website	an athento inspection
Appliances - White goods	Free	\$30 each	is not required. If y about asbention we	sy are still concerned a can have the structure
Tines (automobile)	Free	52 - 59 each	kupected but then	a to no requirement to
Tires (tractor/semi-trailer)	\$181.75	\$181.75/ton	submit paper work building having for	is MPCAtis residential a or lever duesting units.
Electronics – e-waste	Free	\$30 each or 0.49 pound		
Metal	Free	Free	Appliances Asheritors	
Household Hazardous Waste	Free	Not Accepted!	- Ropestos	
Gasoline	Free	Not Accepted!		nd safety controls
Antifreeze	Free	Not Accepted!	Hazardous Was Lead-containing	
Bring the following iten Stations for correct disg: These items don't gg in your recycling or household trash! Please do NOT place iten at rural drop off sites. Medications can be disp Sanford Pharmacy. 16 S. Bemidji Bemidji Law Enforcem Center, 613 Minnesota /	ns posed of at: 11 Anne ent	Contention of the second and the sec	- Undiverse - Undiverse - Submittee - Submitt	
Bemidji Transfer Station Mon & Wed-Fri 7-6 Tue (closed to public) Saturday 7-3 Sunday CLOSED Blackduck Transfer Station Mon & Th 9-6 Tuesday 8-5 Friday 8-5 Saturday 8-1:30 Wed & Sunday CLOSED		Pinewood Rural Site 16909 Grange Rd. NW, Bemidji M-F 8:00-6:00 Sat 8:00-3:00 Island Lake Rural Site 8530 Lumberjack Rd. NW, Puposky		Fourtown Rural Site 63063 Fourtown Rd. NW, Fourtown everyday - 9:00-8:00 Waskish Rural Site 56162 Waskish Rd. NE Waskish
Beltrami County Demo Landfill April-October November-March Tue-Sat Tuesday 7:45-3:45 7:45-3:45 Fri-Sat 7:45-3:45		Ten Lakes Rural Site 23170 Power Dam Rd. NE, Bemidji Mon & Th 5:30-8:30, Sat 8:00-3:00		Northdale Oil Recycle Drop off Irvine Ave. NW & Jon Ave. NW Behind Target: 2115 23rd St NW