



SOLID WASTE MANAGEMENT

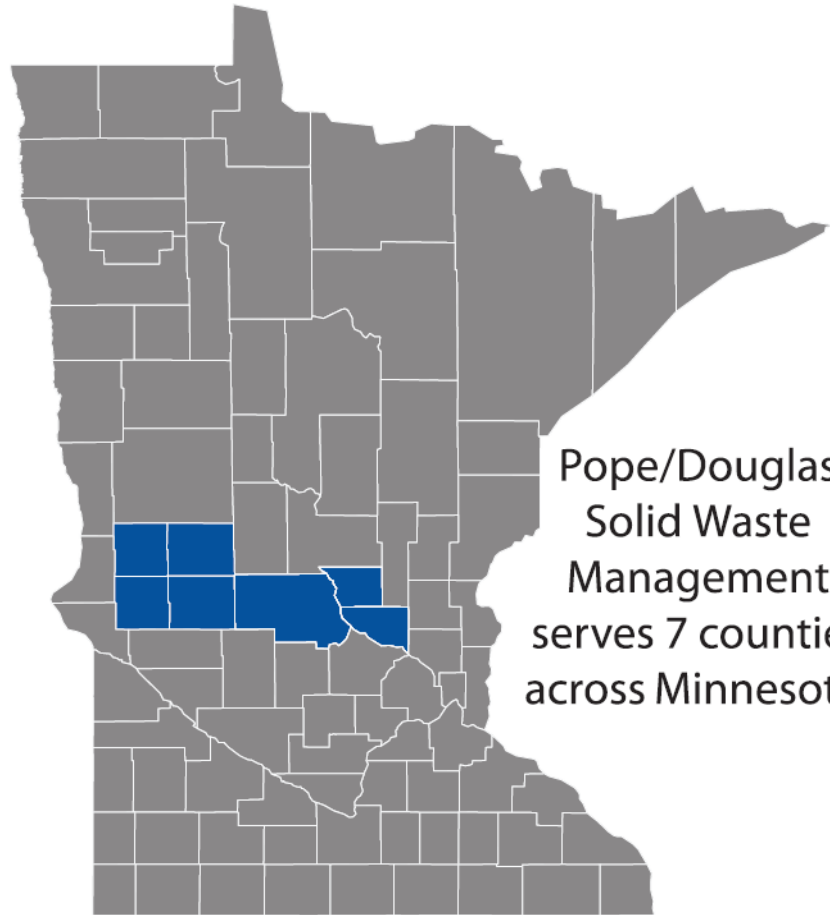
Put Waste In Its Place!

Greater MN Organics Collection

Pope & Douglas Counties

July 11-13, 2023 – MN Composting Council

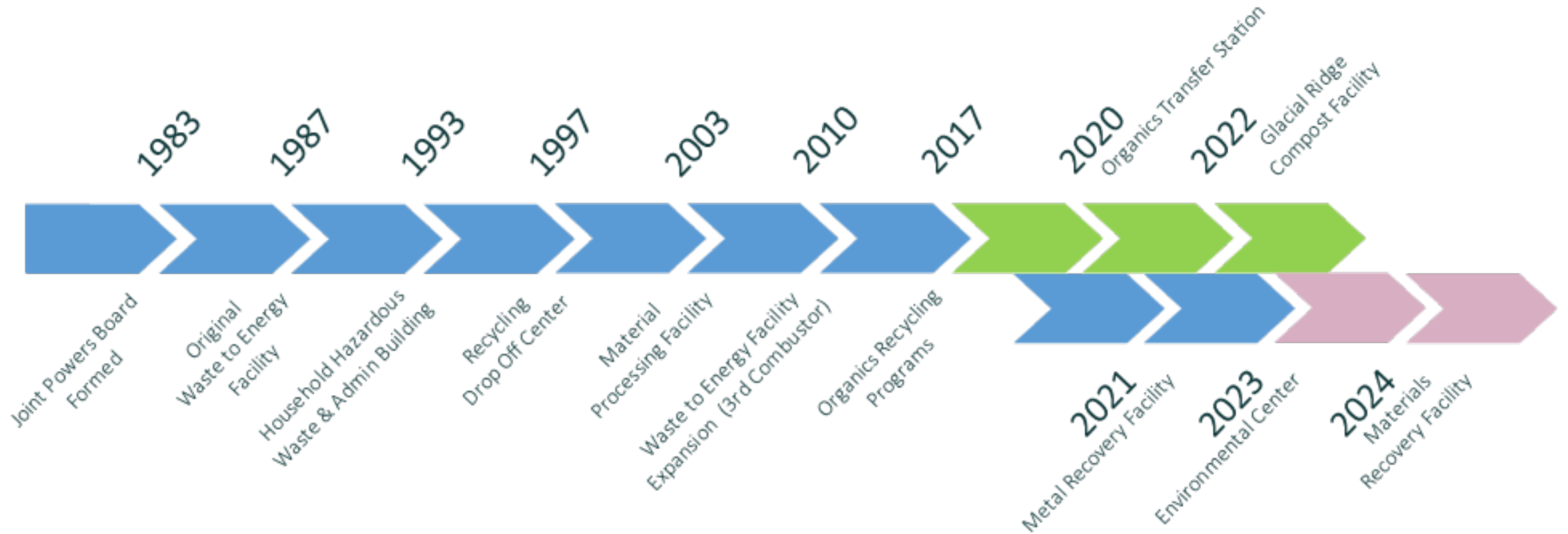
⇒ Compost Operators Training @ Mystic Event Center (SMSC)



Pope/Douglas
Solid Waste
Management
serves 7 counties
across Minnesota.



Facilities/Programs Timeline



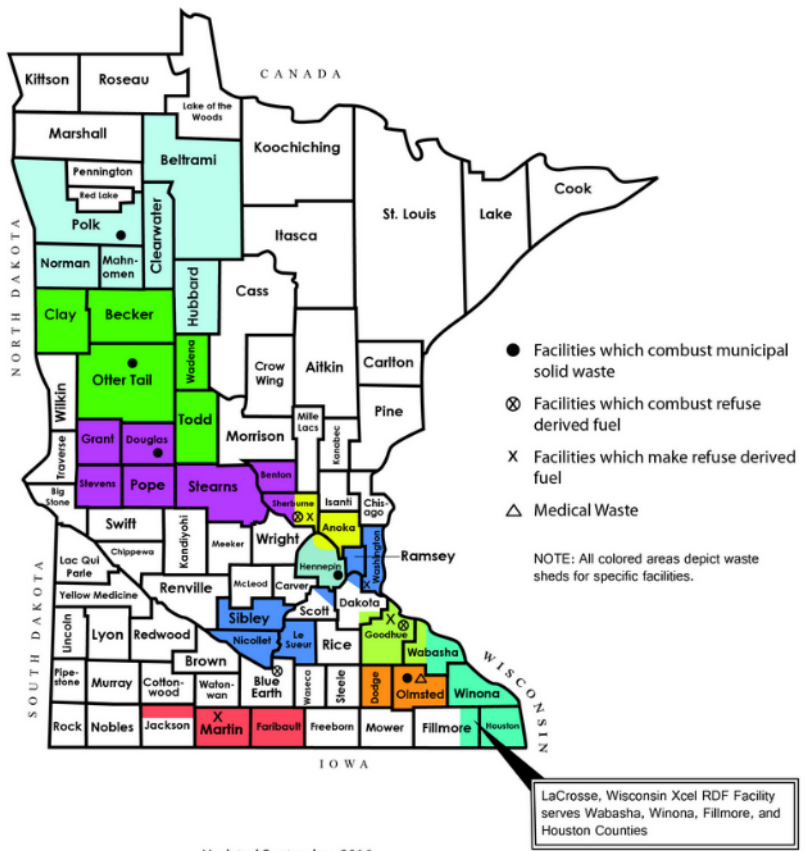
Undesirables in the Garbage

- Food waste has a low BTU value at the Waste to Energy Plant
- Landfilling creating excess leachate and GHG concerns
- Food waste gums up the MRF conveyers and trommel
- PDSWM processes ~80,000 tons of solid waste from Pope, Douglas, Grant, Stevens, Stearns, Benton, Sherburne
- Generate ~10,000 tons of fines

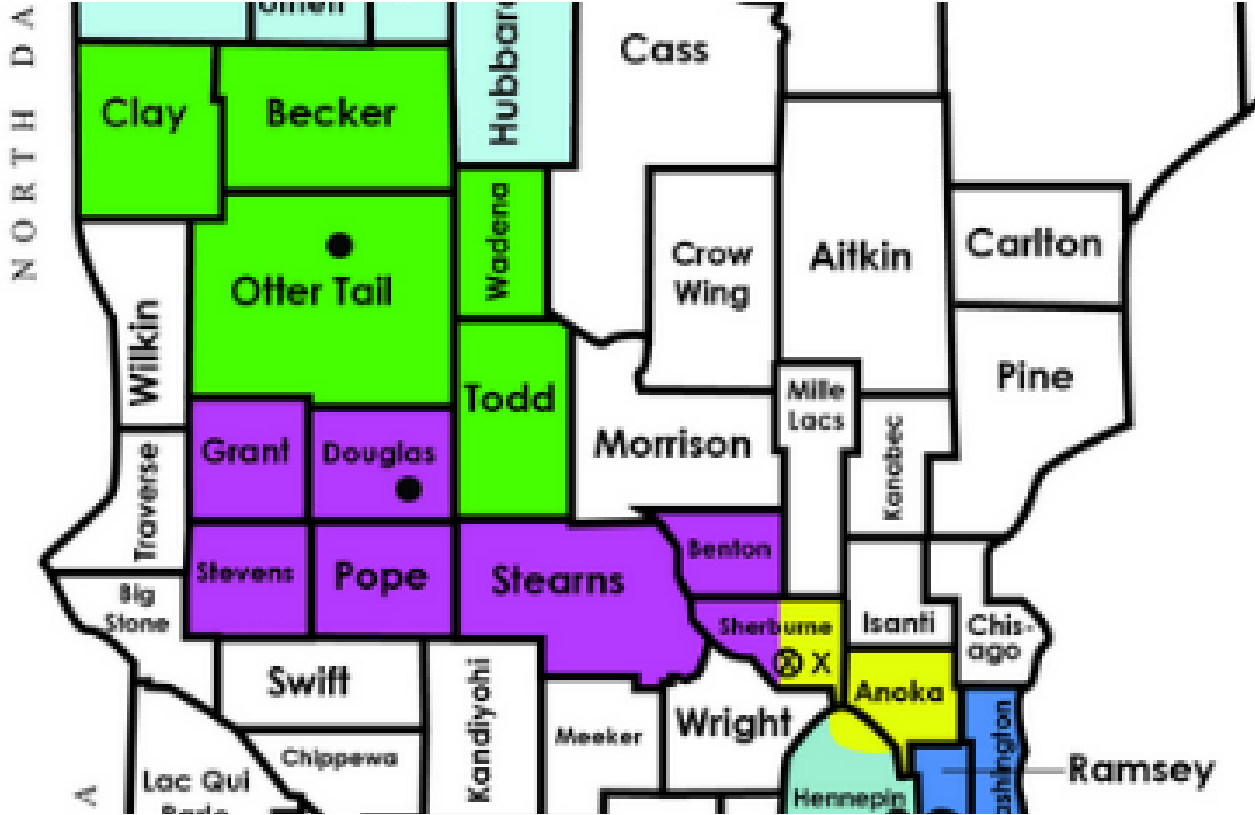


Resource Recovery Facilities Support

Counties and Minnesota Waste Combustion Facilities



Updated September, 2016



Playing our role
in the waste
management
hierarchy

WASTE MANAGEMENT HIERARCHY



Organics Recycling: Pre-Pilot



ORGANICS RECYCLING IS HERE
Ask ME how to get SET UP!

- Pre-Pilot Program – Spring 2016
 - Minnewaska Area High School
 - 2 weeklong sorting/study to make recommendations for eventual roll-out



Organics Recycling: The Beginning



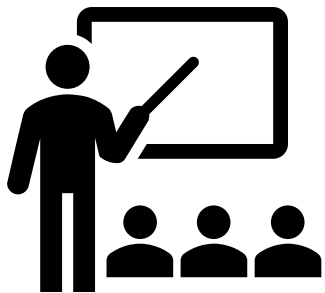
ORGANICS RECYCLING IS HERE
Ask ME how to get SET UP!

- Pilot Program – 2017
 - Partially paid for with (MPCA) Greater MN EA Grant (2016-2018)
 - 4 schools to start



2016-2018 Grant

- MPCA Environmental Assistance Grant - \$250K
 - Match \$84K, Total Project \$333K
- Develop school organics program – started with 4 schools
- Nursing homes, care facilities, hospitals
- Community awareness, trainings, workshops
- Develop transportation capacity
- Investigate setting up small composting sites





You're Invited!!

Pope/Douglas Solid Waste Management *and* Sanimax

Invite You

to an

*Informational Presentation
Question & Answer Session*

on

Setting up Organics Recycling at Commercial Businesses

When: Wednesday, June 22nd - 9:00 a.m. until 10:00 a.m.
Where: City of Alexandria City Hall—City Council Chamber Room
704 Broadway Street, Alexandria, MN

Ample Parking in Municipal Parking Lot behind City Hall

Hot Coffee/Water and Pastries will be served

For more information contact Pope/Douglas Solid Waste Management
320/763-9340 or www.popedouglasrecycle.com



Container Description	Pounds Per Container (AVG)	Price Per Service
3 YD steel with poly lid	2,500 – 3,000	\$89.00
4 YD steel with poly lid	2,800 – 4,000	\$94.00
65 Gal Toter with lid and liner	220	\$52.00 *

* Sanimax required a minimum of three 65 g and 95 g Toters per placement

District 206 – ‘After Organics’

- ‘Sanimax’ Organics Recycling Pickup
- 3 yd dumpster (fits 2,500-3,000 lbs of Organics)
- \$70.00/service. No taxes or other fees.
- Comes out to \$50.00 per ton.
- Organics makes up about 30% of the School’s Waste Stream.



Sanimax
Reclaim · Renew · Return

FOOD WASTE COLLECTION

ALL FOOD ✓

fruits, vegetables, meat, poultry, seafood, shellfish, bones, rice, beans, pasta, bread, cheese and eggshells *

TODA COMIDA ✓

frutas, verduras, carnes, mariscos, pescados, huesos, arroz, frijoles, pastas, pan, quesos, dscaras de huevo *

FOOD-SOILED PAPER ✓

waxed cardboard, napkins, paper towels, paper plates, paper milk cartons, tea bags, coffee grounds filters, wooden crates and sawdust *

PAPEL MANCHADO POR COMIDA ✓

cartón encerado, servilletas, platos y toallas de papel, filtros y residuos de café, recipientes de cartón para leche, bolsas de té, cajas de madera, aserrín *

PLANTS ✓

floral trimmings, tree trimmings, leaves, grass, brush and weeds *

PLANTAS ✓

recortes de flores y árboles, hojas, césped cortado, malezas, hierbas *

NO! ✗

- plastic bags/wrap/straws
- Styrofoam
- bottles and cans
- aluminum foil
- liquids
- hazardous waste

¡NO! ✗

- bolsas/envolturas/pajitas
- de plástico
- espuma de poliestireno
- botellas y latas
- papel de aluminio
- líquidos
- desechos peligrosos

* All material may not be acceptable in your area. Please consult your local codes rep.

*Es posible todo el material no pueda ser aceptable en su área. Por favor consulta a su representante de ventas local.

www.sanimax.com
1.800.955.6355

We Are The 3R

Sanimax Pricing Sheet and Customer Reporting Log Sheet: Pope/Douglas Counties

Container Description	Pounds Per Container (AVG)	Price Per Service
3 YD steel with poly lid	2,500 – 3,000 (avg. 2,750 lbs)	\$89.00/service 'pickup'
4 YD steel with poly lid	2,800 – 4,000 (avg. 3,400 lbs)	\$94.00/service 'pickup'
3 - 65 Gal Toter with lid and liner	220	\$52.00 /service 'pickup'

Sanimax Reporting of Organics Recycling customers would be sent to PDSWM for payment 'offset' to the customer. Sanimax would send log info to PDSWM on a monthly basis (by the 7th calendar day of each month from the previous month's calculations). PDSWM would pay offset/reimbursement to Sanimax customer quarterly.

PDSWM Payment info based on Sanimax Organics Recycling Log Sheet.

Date	Customer	3 – 65 Gallon	25 50 75 100				3 yard	25 50 75 100				4 yard	25 50 75 100			
			Quantity of bins/dumpster					Quantity of bins/dumpster					Quantity of bins/dumpster			
			Percent of carts filled				Percent of dumpster filled				Percent of dumpster filled					
*7/25/16	Walmart										4		1	1	2	
**7/25/16	Woodland School						1			1						
***7/25/16	Osakis School										1				1	

***Osakis Schools (District 213) Offset Payment from PDSWM to District 213 would be calculated as follows:

They have 1 – 4 yard dumpster.

Dumpster 1: 100% full. 3,400 lbs x 2,000 = 1.7 tons

1.7 tons x \$30/ton 'offset' = \$51.00 ('offset')

PAYMENT/REIMBURSEMENT to District 213: \$51.00 (\$94.00/service 'pickup') - \$51.00 = \$43.00/service 'pickup' for Organics Recycling Service

Hit the First Snag

- Sanimax serviced Wal-Mart and 4 schools
- Truck capacity issues with Sanimax
- Lack of composting infrastructure
- Could not grow program

- Sanimax notified Pope/Douglas and schools that they were discontinuing their service in our area on June 2017 (would be continuing Class B 'non-meat' with only Wal-Marts)
- Back to the drawing board...





Hauling Truck Cooperative Solution

- Modified Env Assistance Grant to purchase rear load garbage truck
- Addressed hauler sensitivities and other real or perceived concerns
- Cooperative system
- Truck/carts/stickers branding to not identify contracted hauler
- Contracted hauler to serve any location – no matter what
- Restrictions on communication/stealing customers
- Hauler requirement to provide leads to Pope/Douglas
- Haulers to work with customers to reduce MSW pickup/right size



This Place Recycles
ORGANICS!



Organics Recycling
- Let's Work Together -



SCAN FOR MORE INFO
popedouglasrecycle.com

- 65 & 95 gallons carts
- 2 yd dumpsters
- Otto
- 45 gallon carts ordered late 2022 to right size need and use



ORGANICS RECYCLING

ALL FOOD

FOOD SOILED
PAPER



ORGANICS RECYCLING IS HERE
Ask *us* how to get *SET UP!*

ORGANICS RECYCLING



ORGANICS RECYCLING IS HERE
Ask *us* how to get *SET UP!*

ORGANICS RECYCLING



ALL FOOD

Fruits, Vegetables, Meat, Poultry,
Seafood, Shellfish, Bones,
Rice, Beans, Pasta, Bread,
Cheese and Eggshells



FOOD SOILED PAPER

Waxed Cardboard, Napkins,
Paper Towels, Paper Plates,
Paper Milk Cartons, Tea Bags,
Coffee Grounds Filters



ORGANICS RECYCLING IS HERE
Ask *us* how to get *SET UP!*

320-763-9340
www.popedouglasrecycle.com

NO Plastic
NO Glass
NO Metal

RECYCLE ORGANICS HERE!

Pope/Douglas Solid Waste Management
320-763-9340
gogreen@popedouglasrecycle.com
popedouglasrecycle.com



Do not compost:
Plastic Bags
Filmy Plastic
Styrofoam
Plastic Plates, Cups, Cutlery
Packaged Food
Handwipes
Sanitary Products
Fast Food Wrappers

NO plastic bags
ONLY Paper or
BPI Certified Bags



Visit our website for
up to date information!



ALL FOOD

Fruits, Vegetables, Meat, Poultry,
Seafood, Shellfish, Bones,
Rice, Beans, Pasta, Bread,
Cheese and Eggshells



FOOD SOILED PAPER

Compostable paper and plastic
products must be BPI certified.

Napkins, Paper Towels, Tea Bags,
Coffee Ground Filters

ORGANICS RECYCLING

ALL FOOD & FOOD SOILED PAPER

ORGANICS RECYCLING

Visit our website for
up to date information!



Commercial Collection

- 80-100 customers – variation w/seasonal locations
- Need more restaurants to participate
- Solid Waste Ordinances being updated (3+ years)



Co-collection Pilot

- 2 year pilot study
- Pope/Douglas/Grant provided grants for 2 year pilot test program
 - Osakis (600 hh) – 97 hh signed up
 - Glenwood (1,300 hh) – 134 hh signed up
 - Elbow Lake (561 hh)
- Easier to implement due to single hauler – contracted by city
- On-going education and communication
- Collect feedback from pilot participants: telephone survey



HOUSEHOLD CURBSIDE ORGANICS RECYCLING

SIGN UP TODAY! ... AND RECEIVE OUR FREE RECYCLING BAGS
IT'S EASY...



RECYCLE WASTE... AND PLACE AT CURB!



SCAN FOR MORE INFO



PUT WASTE IN ITS PLACE
320-763-9340 or 800-972-6318
WWW.POPEDOUGLASRECYCLE.COM



Household Organics Recycling



It's Here. It's Easy. Sign up!

**Put Waste In Its Place!
PopeDouglasRecycle.com**



Household Organics Recycling

Join Your Neighbors in creating *less* waste and a sustainable community!

Sign up: popedouglasrecycle.com
320/763-9340

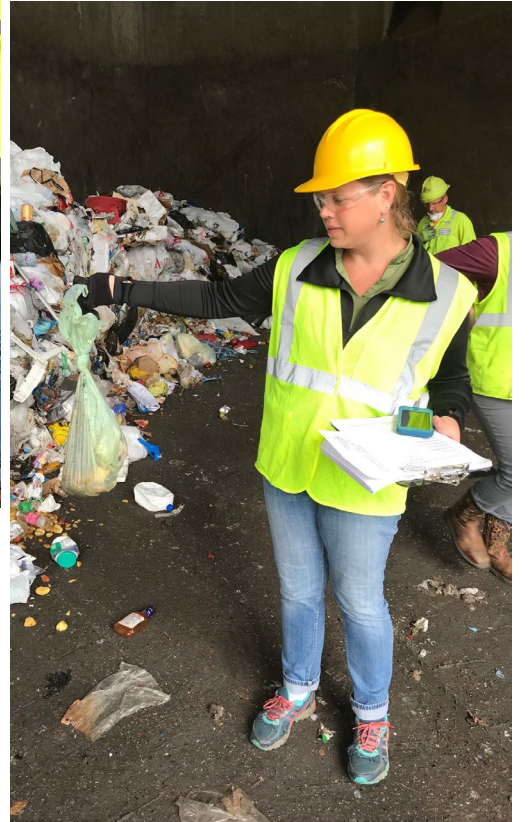
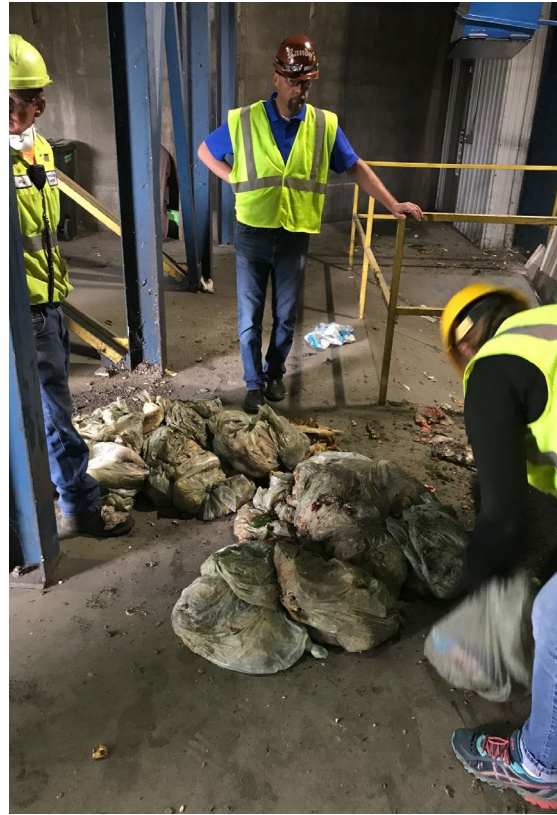


Already Signed Up?

Here are a few tips:



- Check the acceptable items for organics recycling list received in your welcome kit
- Tie a sturdy knot on the top of your green bag before placing it in your trash can
- Place tied green bag on top of your other trash within your trash can
- Do not place the green bag on top of your trash can



Drop Sites

- 9 community based/supported sites
- Collected weekly
- Schedule cart cleaning rotation
- Uniform look and feel
- Standardized signs/brochures
- Starter kits – collection bin/bags/brochure



Zero Waste Events

- Targeted events for greater impact
- Buy-in and acceptance
- BPI compostable supplies/bins
- Green Warrior Program

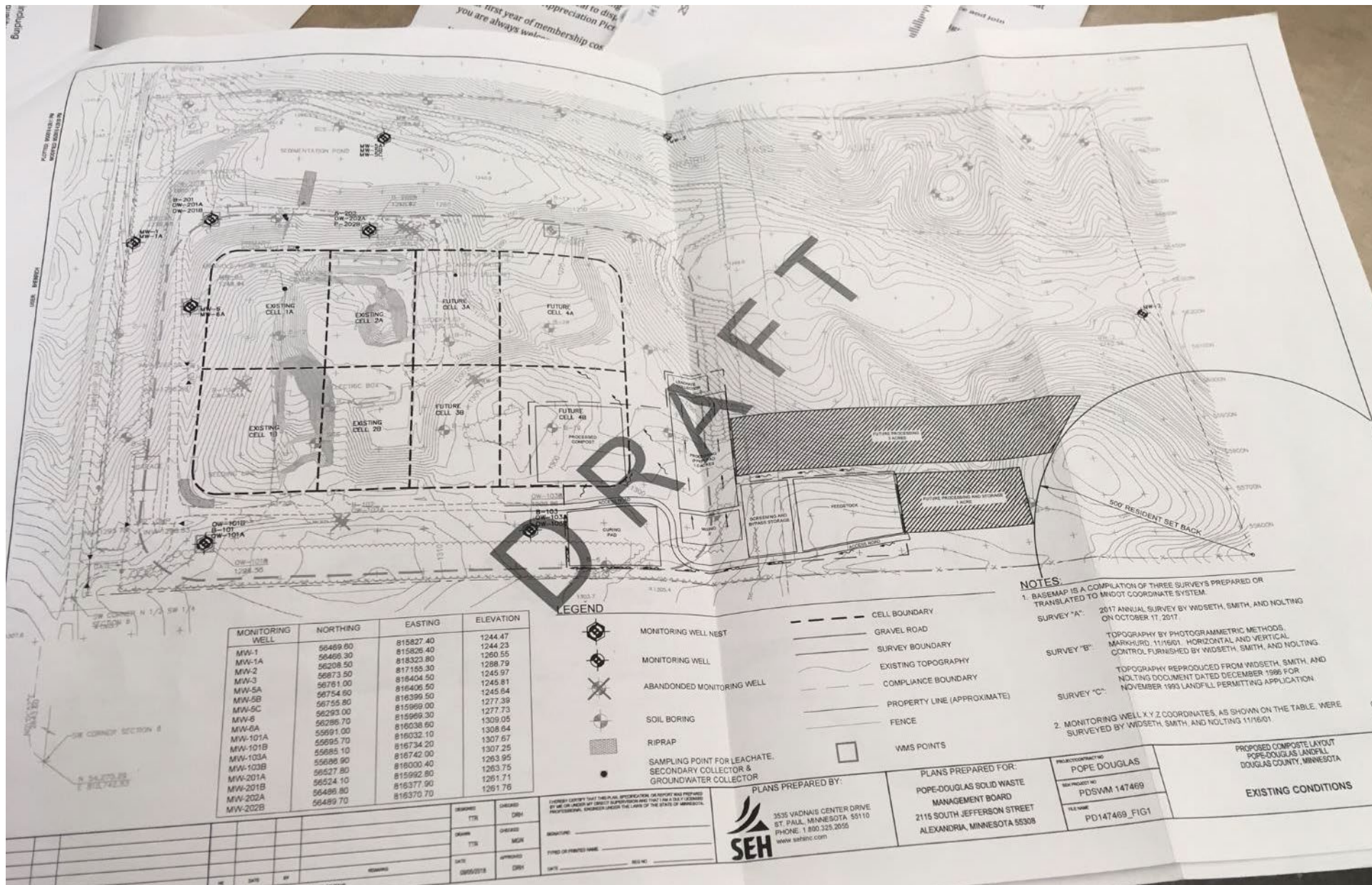




Organics Transfer & Facility Development

2018-2021 Grant

- MPCA Environmental Assistance Grant - \$250K
 - Match \$137K, Total Project \$387K
- Glacial Ridge Regional Organics Composting Phase I Facility Development and Community Outreach
- Regional approach to growth
- Pope/Douglas, Grant, Stevens, Otter Tail
- Mass growth
- Transfer Capacity
- Hub and Spoke



MONITORING WELL	NORTHING	EASTING	ELEVATION
MW-1	56469.60	815827.40	1244.47
MW-1A	56469.20	815826.40	1244.23
MW-2	56208.50	818323.80	1260.55
MW-3	56673.50	817185.30	1288.79
MW-5A	56761.00	816404.50	1245.97
MW-5B	56754.60	816406.50	1245.81
MW-5C	56755.60	816399.50	1245.84
MW-6	56293.00	815989.00	1277.73
MW-6A	56286.70	815966.30	1309.05
MW-101A	55991.00	816038.60	1308.64
MW-101B	55695.70	815032.10	1307.67
MW-103A	55685.10	816734.20	1307.25
MW-103B	55686.90	816000.40	1263.95
MW-201A	56527.60	815992.80	1263.75
MW-201B	56524.10	815982.80	1261.71
MW-202A	56496.80	816377.90	1261.71
MW-202B	56489.70	816370.70	1261.76

LEGEND

- MONITORING WELL NEST
- MONITORING WELL
- ABANDONED MONITORING WELL
- SOIL BORING
- RIPRAP
- SAMPLING POINT FOR LEACHATE, SECONDARY COLLECTOR & GROUNDWATER COLLECTOR
- GRAVEL ROAD
- SURVEY BOUNDARY
- EXISTING TOPOGRAPHY
- COMPLIANCE BOUNDARY
- PROPERTY LINE (APPROXIMATE)
- FENCE
- VMS POINTS

NOTES

- BASEMAP IS A COMPILATION OF THREE SURVEYS PREPARED OR TRANSLATED TO MGRID COORDINATE SYSTEM.
 - SURVEY "A": 2017 ANNUAL SURVEY BY WIDSETH, SMITH, AND NOLTING ON OCTOBER 11, 2017.
 - SURVEY "B": TOPOGRAPHY BY PHOTOGRAMMETRIC METHODS, MARKHARD, 11/16/01. HORIZONTAL AND VERTICAL CONTROL FURNISHED BY WIDSETH, SMITH, AND NOLTING.
 - SURVEY "C": TOPOGRAPHY REPRODUCED FROM WIDSETH, SMITH, AND NOLTING DOCUMENT DATED DECEMBER 1986 FOR NOVEMBER 1993 LANDFILL PERMITTING APPLICATION.
- MONITORING WELL X, Y, Z COORDINATES, AS SHOWN ON THE TABLE, WERE SURVEYED BY WIDSETH, SMITH, AND NOLTING 11/16/01.

PLANS PREPARED BY: **SEH** 3535 VADNA'S CENTER DRIVE, ST. PAUL, MINNESOTA 55110, PHONE: 1.800.325.2056, www.sehinc.com

PLANS PREPARED FOR: POPE-DOUGLAS SOLID WASTE MANAGEMENT BOARD, 2115 SOUTH JEFFERSON STREET, ALEXANDRIA, MINNESOTA 55308

PROJECT NUMBER: POPE DOUGLAS, DRAWING NO: PDSVM 147469, FILE NAME: PD147469_FIG1

PROPOSED COMPOSITE LAYOUT POPE-DOUGLAS LANDFILL, DOUGLAS COUNTY, MINNESOTA

EXISTING CONDITIONS

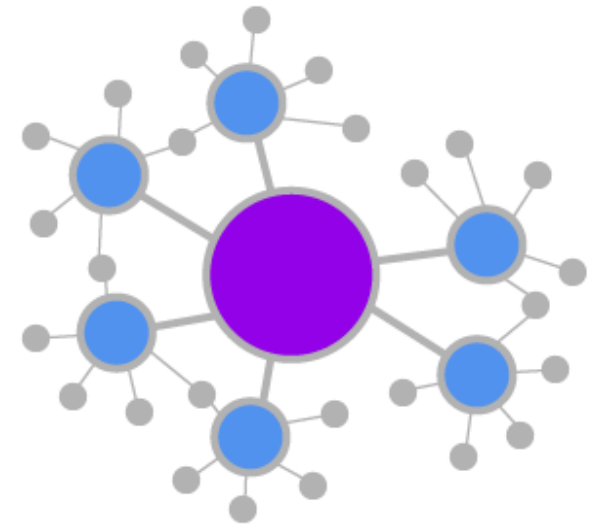
Organics Transfer Station

- Phase 1 of Glacial Ridge Compost Facility
 - Capacity to transfer up to 1,000 tons/year
 - Partially paid for with (MPCA) Greater MN EA Grant (2018-2020)





Glacial Ridge Compost Facility



- Why go through the hassle?
 - SCORE – increase recycling access and rate
 - Regional Collaboration
 - Pope/Douglas, Tri-County, Grant, Stevens, Otter Tail
 - Long term MSW delivery contracts – ‘bread and butter’
 - Managing organics to a higher use aligns with Solid Waste Plan and MPCA overall goals of increasing access throughout the state



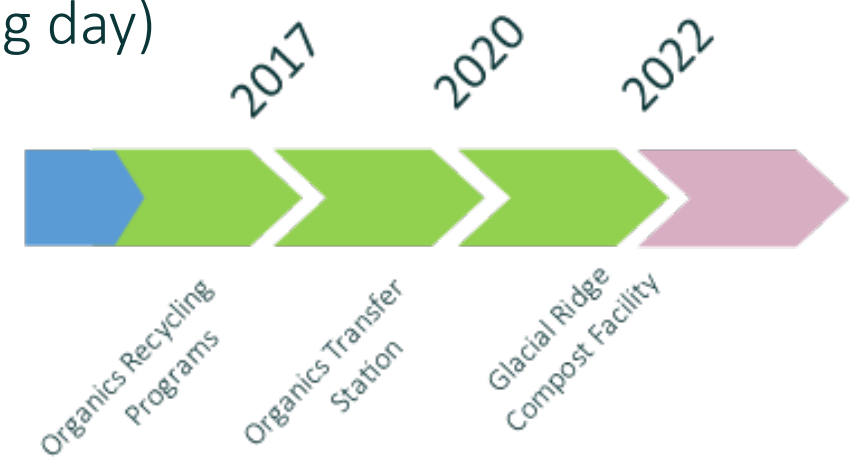
Glacial Ridge Compost Facility

- CAP (Capital Assistance Program)
 - Phase I Bonding - \$5 Million State Contribution
 - Environmental Center (HHW/Recycling/Problem Materials/Education/Administration)
 - Scale House (Shipping/Receiving, Truck Scale/Internal Roads & Queuing Areas)
 - Regional Organics Composting Facility (Office/Processing Facility)



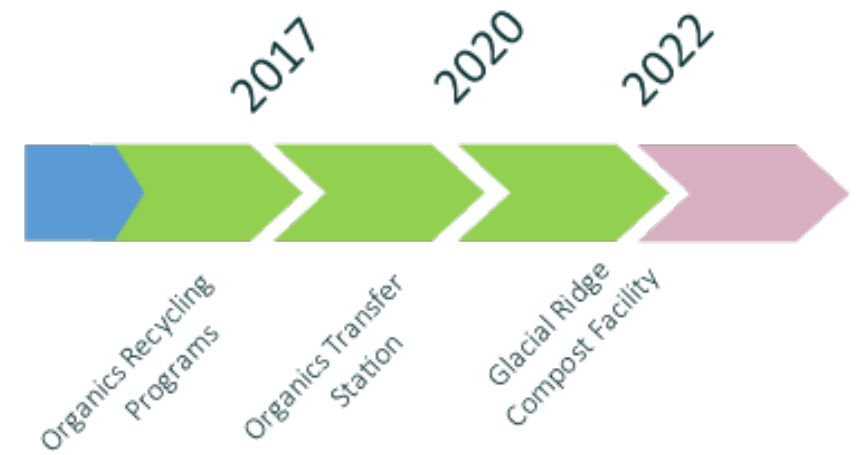
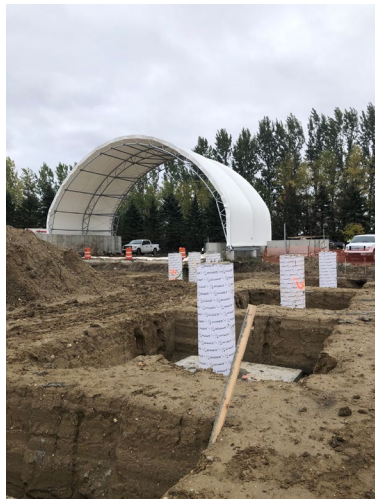
Glacial Ridge Compost Facility

- Intensive research on type of facility to build
 - Low capital/high labor?
 - High capital/low labor?
 - O&M
 - WLSSD comparison: 12,000 TPY (45 tons/operating day)
 - Right-sizing facility
 - Expect minimum of 2,000 tons in the short term and growing to projections of 10,000 tons – including ground up yard trimmings/wood chips



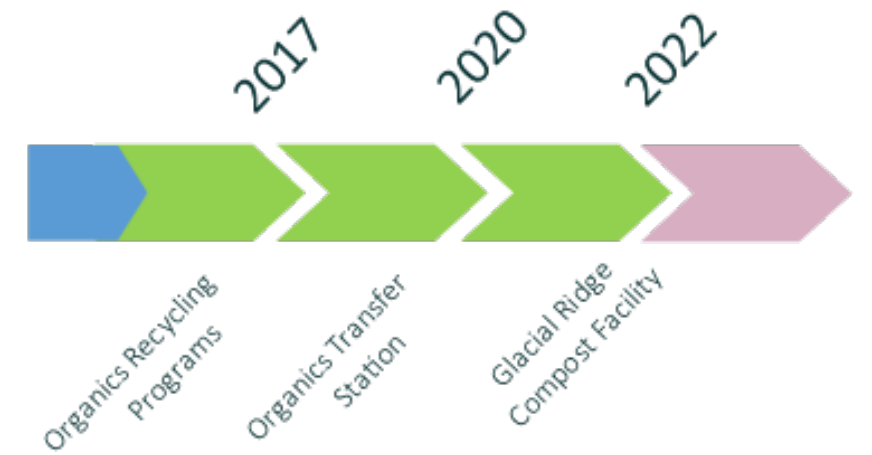
Glacial Ridge Compost Facility

- Local/regional processing
 - In control of our collective destiny
 - Local source of finished compost



Glacial Ridge Compost Facility

- Local/regional processing
 - Ability to expand facility as programs grow



Glacial Ridge Compost Facility

- Summer of 2022 (Officially opened September)
 - Site Security
 - Fine-tuning automation systems
 - Finishing concrete pours



Getting the organics dropped at GRCF

- Commercial organics collection
- Community organics drop sites
- Regional county partners







Plate to Garden Events

- High profile events for organics awareness
- Building confidence in compost end-use



Committed Partners



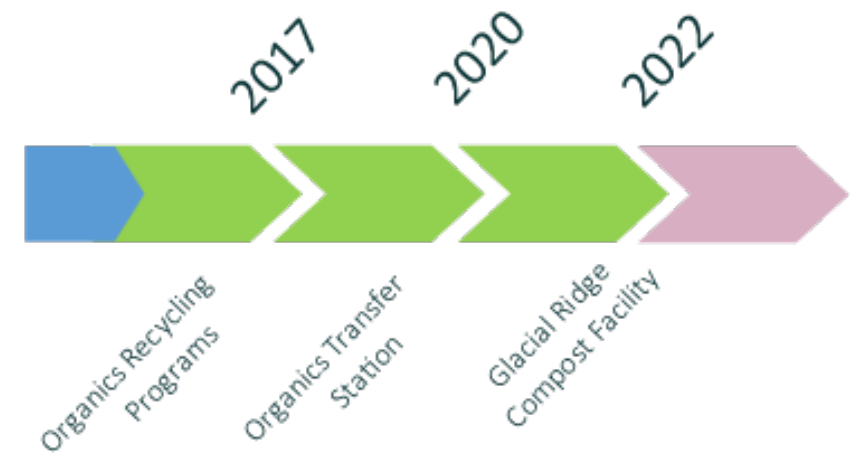
Compost End-Use

- Goal: Develop county compost use requirement
- Goal: Produce biochar with partner/mix with composting process
- Goal: Professionally bagged compost/market to garden centers
- Goal: MN DOT supplier/vendor setup
- Goal: Shovel your own compost @ Env Center
- Goal: Rental of top-spreader to households



Glacial Ridge Compost Facility

- Special thank you for all those who helped lead us on a good path!
 - SMSC, WLSSD, Swift, SET, Mississippi Topsoils, Creekside
 - Engineered Compost Systems
 - MPCA
 - MN Composting Council
 - US Composting Council



- Questions?

- Nathan Reinbold – Environmental Programs Mgr
- nathan@popedouglasrecycle.com
- 320/763-9340 or 218/831-3515
- popedouglasrecycle.com

- Steve Vrchota – Director



Thank You!



Put Waste In Its Place!