

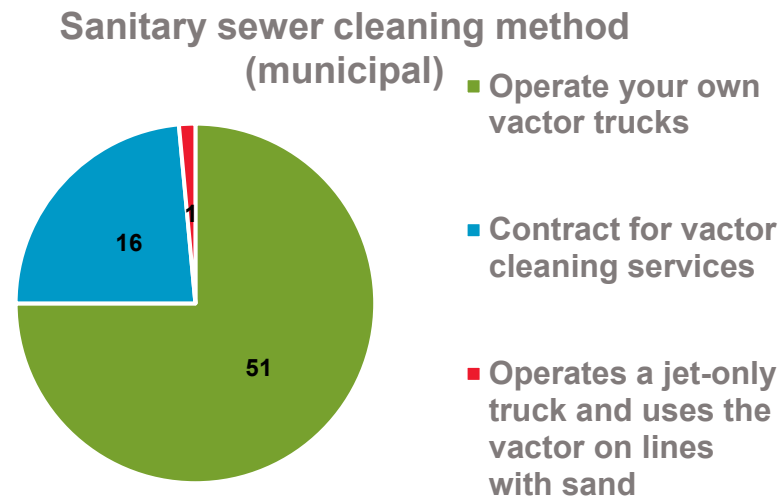


Vactor survey results

Municipal and private hauler surveys



How does your community perform sanitary sewer cleaning?

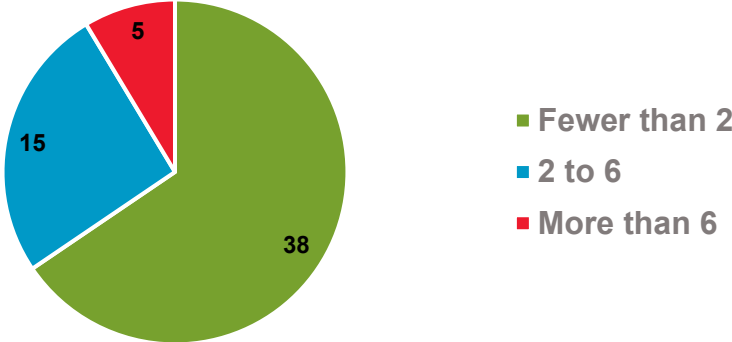


Contractors used:

- American Environmental
- Chisago Lakes Joint Sewer Treatment Commission
- David's Hydrovac
- Empire Pipe Services
- Eureka
- Goliath
- Hydro-Klean
- Hydro-Vac
- Kothrade
- Miller Excavating
- Overline and Sons
- Pipe Services
- Ritter and Ritter
- Schlomka Services
- Veolia
- Veit
- Visu-Sewer

Number of loads per week

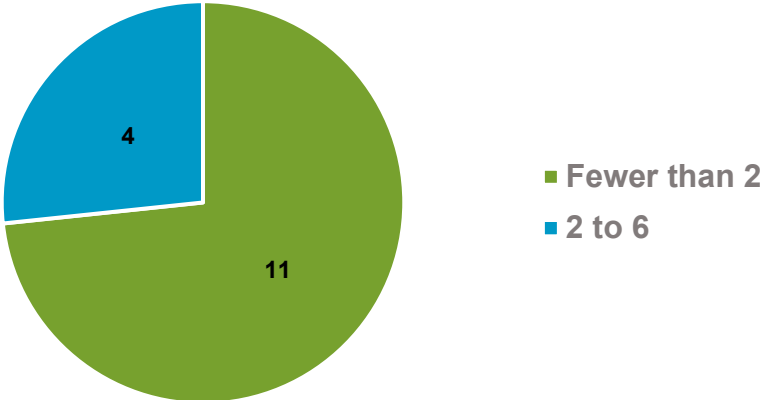
Loads per Week (Municipal)



Conclusion(s)

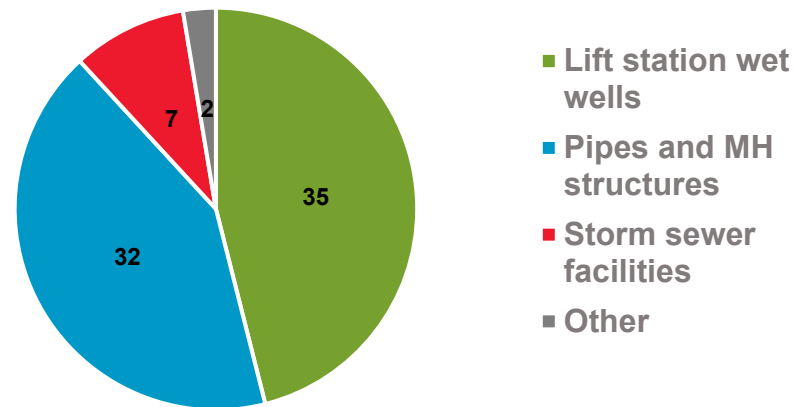
- Municipalities dispose of approximately 25-30 truck loads per day within the Region.
- Private haulers dispose of approximately 5 loads per day within the Region.

Loads per Week (Private)



What facilities generate the most waste?

Facilities generating the most waste

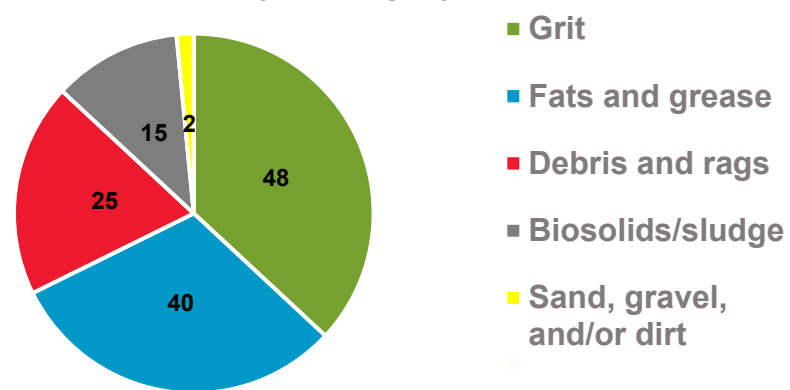


Conclusion(s)

- The majority of vector waste materials are sanitary sewer-related
- Storm sewer waste is a minor component of vector waste

What substances are most commonly removed by vactor trucks during cleaning?

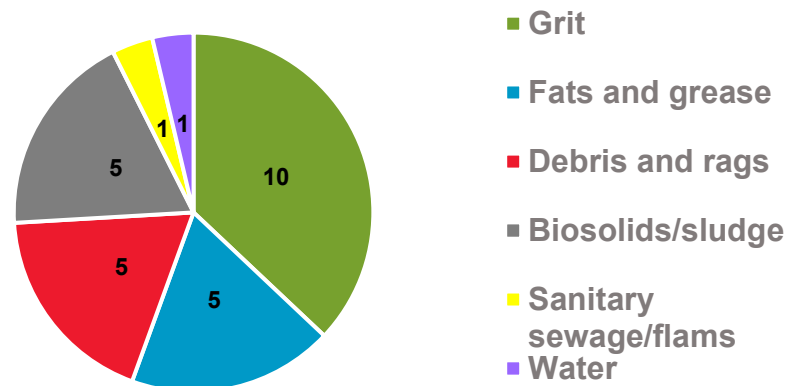
Substances most commonly removed (municipal)



Conclusion(s)

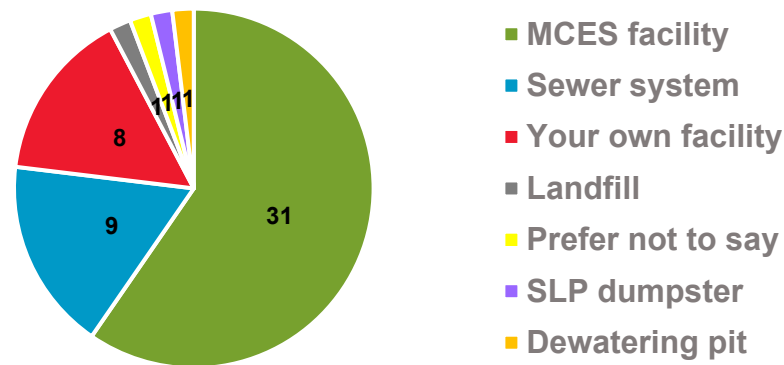
- Most vactor waste contains FOG materials
- Grit is the most common component of vactor waste

Substances most commonly removed (private)

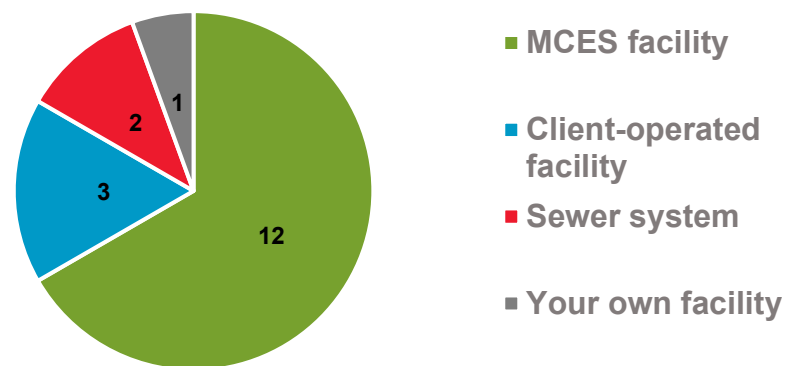


Where do you dispose of your vactor waste from sanitary sewer cleaning?

Where do you dispose of vactor waste?
(municipal)



Where do you dispose of vactor waste?
(private)



Locations specified for those that use another community's vactor waste disposal facility

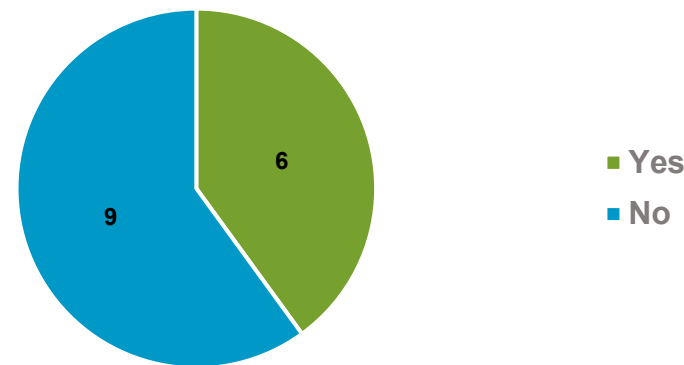
- St. Paul Metro Plant
- St. Louis Park
- Chisago Lakes Joint Sewer Treatment Facility
- Water Town MN Pond
- No one specifically identified the Fridley facility

Additional detail from private haulers:

- “Wherever the city tells us to dump.”
- “Changes by the city we work for.”
- Linden Yard (Minneapolis)
- Several responses: Mankato, Watertown, New Ulm

Is there a need to use metro area disposal facilities for jobs outside the metro area?

Is there a need to use metro area facilities for jobs outside metro area?



Notes:

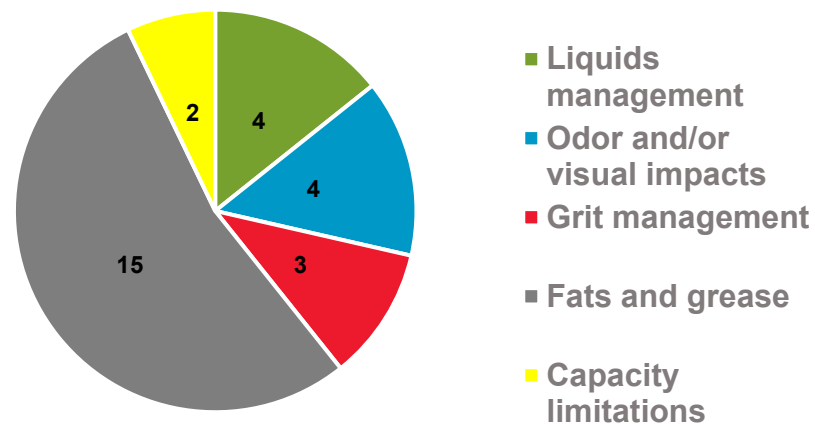
- This question was only asked on the private hauler survey
- No respondents said they utilized disposal facilities outside the metro area for sanitary sewer cleaning jobs within the metro area.

Comments from those who said yes:

- “If they were closer to us we would like to do that. North and western side of metro area would be highly beneficial. Takes half a day to dump loads.”
- “Smaller communities outside the metro area usually do not have the facilities to dispose of the sort of waste”
- “Some small suburbs outside of MCES's control have no place to dump and Pig's Eye would be the closest and easiest solution.”
- “There is a need for it but we stay inside the 7-county metro area so we don't do the vacuuming on those jobs.”
- “Yes, but we currently do not [do so]; but would be a benefit”
- “Yes, more and more small cities and private industries are doing a better job at disposing their own waste. The easier and least expensive way will encourage better practices.”

What are the most difficult aspects operating your own vactor waste site?

Most difficult aspects (municipal)

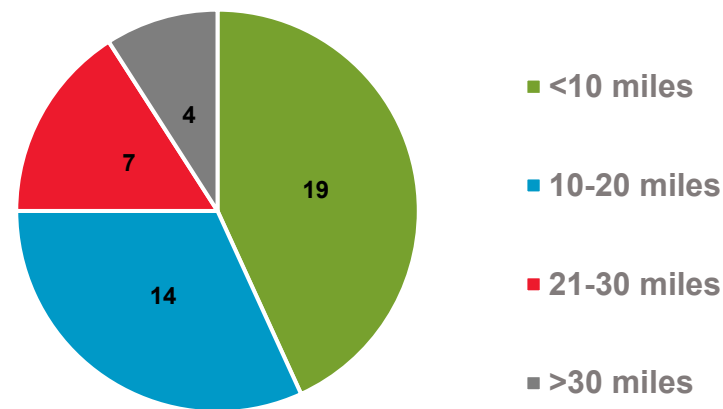


Conclusion(s)

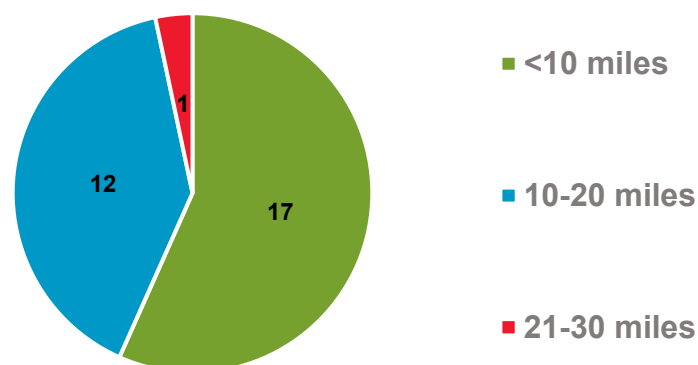
- 47 respondents answered “does not apply”
- Of those, one said, “We are planning to construct our own facility and would be interested in providing a site that serves other communities as well.”
- FOG material is by far the most difficult for responding organizations to manage.

Municipalities: travel distances

Distance to current facility (municipal)



Maximum practical travel distance (municipal)



If you don't use your own facility, how far away is the facility you use?

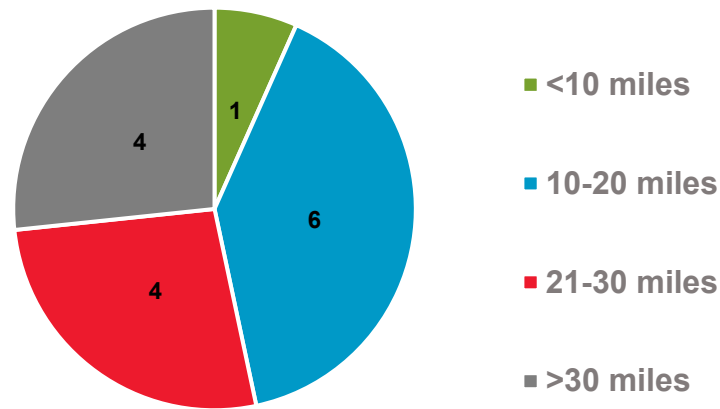
- 14 respondents answered “does not apply”
- The average of this data is approximately 15 miles.

What is the maximum practical travel distance to a regional facility?

- The question asked “If the distance in question 9 is excessive, what is the maximum practical travel distance to a regional vector waste facility?”
- 28 respondents answered “does not apply.”
- The average of this data is approximately 10 miles.
- Haulers consider a practical haul distance approximately 5 miles less than they currently average.

Private haulers: average/maximum one-way travel distances, metro disposal sites

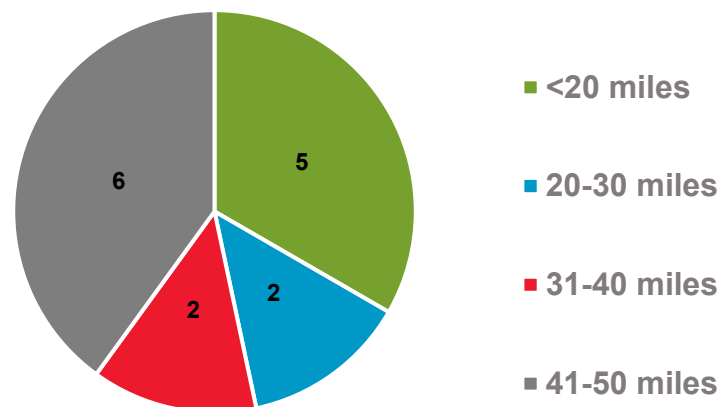
Approximate average one-way distance



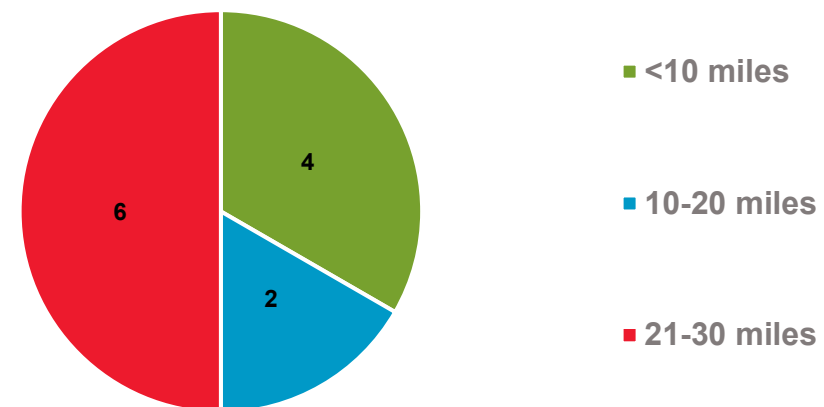
Notes:

- 14 respondents answered “does not apply”

Maximum one-way haul distance

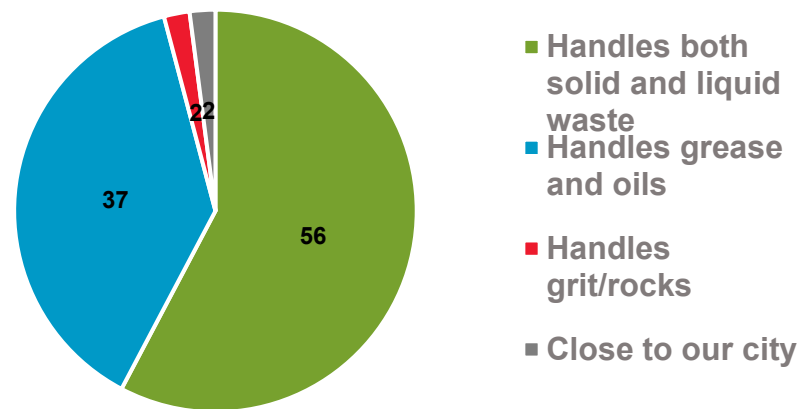


If excessive, what is the maximum practical travel distance?



What features would a regional facility need to have for you to use it?

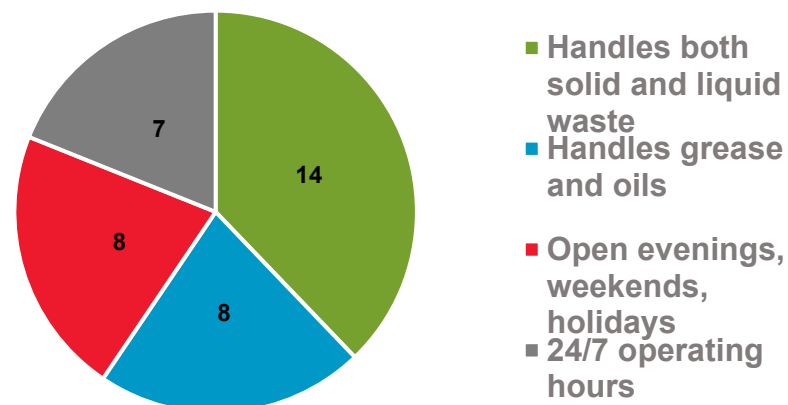
Important features (municipal)



Additional comments from private haulers:

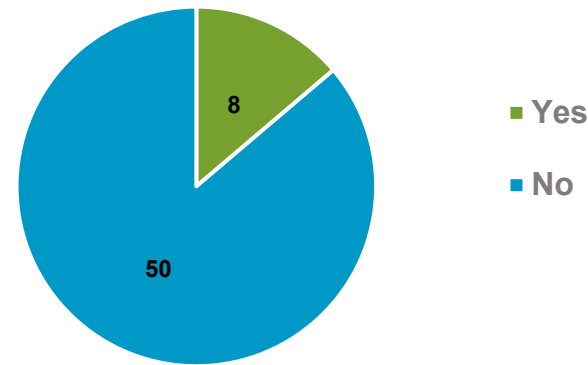
- “Evenings would be great! Ideally 24/7”
- “Construct a waste site at the Blue Lake facility.” *(This comment was from a city that answered the private hauler survey.)*

Important features (private haulers)



Are you planning any capital investments for vector waste disposal facilities?

Planning vector waste capital investments

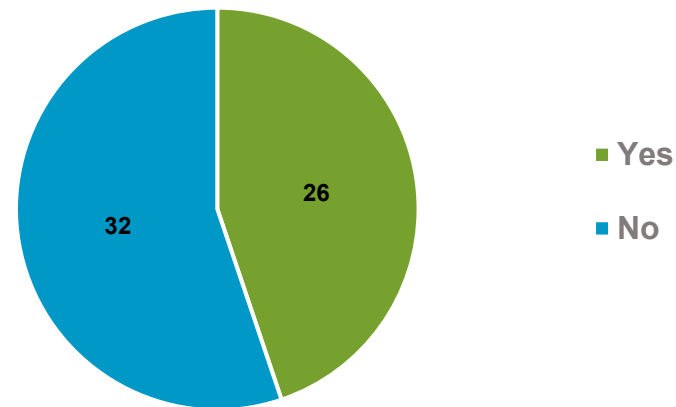


Conclusion(s)

- Few responding organizations are considering their own facilities.
- Most will continue to rely on MCES and other cities.

Interest in further conversations on this topic

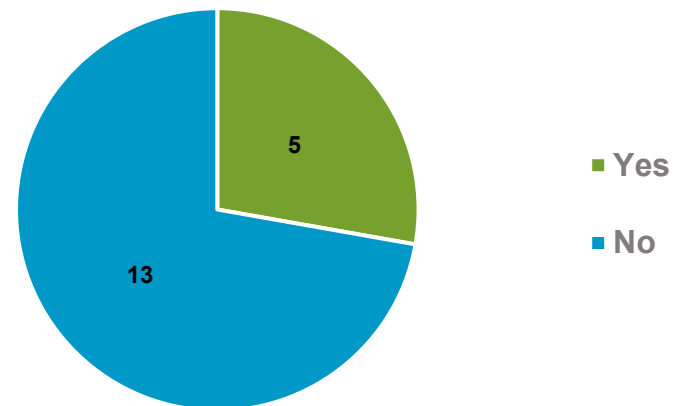
Interested in further conversations (municipal)



Communities that participated

- Less than 1/2 of private haulers interested in further discussions.

Interested in further conversations (private)



Communities that requested survey results

- Less than 1/3 of cities interested in further discussions.

Responses

Cities (* wanted results)

Apple Valley	Lakeville – 2*	Savage – 2*
Bayport	Lindstrom*	Shoreview
Blaine	Lino Lakes*	South St. Paul*
Bloomington-	Mahtomedi	St. Louis Park – 2*
Brooklyn Center	Maple Grove*	St. Paul Park
Burnsville	Mendota Heights*	West St. Paul
Chanhassen	Minneapolis*	White Bear Lake*
Columbia Heights*	Minnnetonka*	Woodbury
Coon Rapids – 2*	Mound*	Elk River*
Cottage Grove – 2-	New Brighton*	White Bear
Crystal – 2*	New Hope*	Township
Eagan – 2*	Oakdale*	
Eden Prairie – 2*	Orono*	
Edina*	Plymouth - 2	
Fridley*	Prior Lake*	
Golden Valley*	Richfield	
Hopkins	Rosemount	
Inver Grove	Roseville – 2*	
Heights	Saint Paul*	

Private haulers (* wanted results)

- American Environmental
- Badger
- *City of Eagan* (not counted)*
- *City of Savage* (not counted)*
- *City of St. Paul Park (not counted)*
- Empire Pipe Services
- Engineering & Construction Innovations Inc
- Equix Integrity, Inc.
- Granite Inliner*
- Hydro-Klean
- McDonough's Sewer Service
- Pipe Detectives
- Ritter & Ritter Sewer Service, Inc*
- Schlomka Services LLC*
- SM Hentges and Sons Inc
- Veit Companies
- Visu-Sewer
- Vortech Hydro Vac, Inc.