

### Summarized results of PFC sampling of groundwater and leachate at landfills

Facility	Landfill type	County	Media sampled	PFBA (high-low) in ppb	PFOA (high-low) in ppb	PFOS (high-low) in ppb
Alex Rubbish DMR	Demolition	Douglas	groundwater	0.148-0.014	0.0828-0.0111	0.0197-ND
Beltrami County	Demolition	Beltrami	groundwater	0.0117-ND	ND	ND
Burnsville SLF	MSW	Dakota	groundwater	0.163-0.039	0.0655-0.00924	0.0572-ND
City of Red Wing	Combustor Ash	Goodhue	groundwater	0.0437-0.0318	ND	ND
Clay County	MSW	Clay	groundwater	0.0126-ND	0.00538-ND	ND
Cross Lake	Demolition	Crow Wing	groundwater	0.0173-ND	0.00529-ND	ND
Demo Landfill Services	Demolition	St. Louis	groundwater	0.038.9-0.00549	0.00647-ND	ND
DKV Demo	Demolition	Chisago	groundwater	0.0588-0.00736	ND	ND
Elk River	MSW	Sherburne	groundwater	0.0958-ND	0.00581-ND	ND
Glenwood Demo	Demolition	Pope	groundwater	0.030-0.00498	ND	ND
Hengel Demo	Demolition	Cass	groundwater	0.0145-ND	0.0125-ND	0.00599-ND
Hubbard County	Demolition	Hubbard	groundwater	0.00849-ND	ND	ND
Lakes Area Demo	Demolition	Becker	groundwater	0.0116-ND	ND	ND
Lyon County	Demolition	Lyon	groundwater	ND	ND	ND
Meeker County	Demolition	Meeker	groundwater	0.0236-ND	0.0109-ND	ND
Oak Ridge	Demolition	Aitkin	groundwater	0.0498-ND	0.00582-ND	ND
Pine Bend	MSW	Dakota	groundwater	25.6-0.0459	1.880-ND	0.381-ND
SKB Rich Valley	Industrial Demo.	Dakota	groundwater	0.262-0.0996	0.00269-ND	0.00759-ND
SKB Rosemont	Combustor Ash	Dakota	groundwater	0.285-0.197	0.0156-ND	ND
SKB Dawnway	Demolition	Dakota	groundwater	1.240-0.427	0.0974-ND	ND
Spruce Ridge	MSW	McLeod	groundwater	0.404-0.0233	0.1300.00779	0.0155-ND
St. Louis Regional	MSW	St. Louis	groundwater	0.00699-ND	0.0205-ND	0.00974-ND
Steele County	MSW	Steele	groundwater	0.0332-ND	0.0103-ND	ND
Summit Ave Demo	Demolition	Blue Earth	groundwater	0.325-0.00436	0.234-ND	ND
TK Demo	Demolition	Stearns	groundwater	0.0363-ND	0.00525-ND	ND
Veit Austin Demo	Demolition	Mower	groundwater	ND	ND	ND
Veolia Rolling Hills	Industrial Demo.	Wright	groundwater	0.0139-ND	0.0174-ND	ND
Vonco	Demolition	Sherburne	groundwater	0.0882-ND	0.837-ND	ND
Voyageurs Ind.	Industrial Demo.	St. Louis	groundwater	0.0594-0.00312	0.0144-ND	0.00681-ND
Wanamingo Demo	Demolition	Goodhue	groundwater	0.0269-ND	0.0169-ND	ND
Waste Management Demo	Demolition	McLeod	groundwater	0.00745-ND	ND	ND
Western Stearns	Demolition	Stearns	groundwater	0.0246-0.00693	0.00986-ND	ND

Facility	Landfill type	County	Media sampled	PFBA (high-low) in ppb	PFOA (high-low) in ppb	PFOS (high-low) in ppb
Brown County	MSW	Brown	spray leachate	0.191	0.179	0.0296
Markit	MSW	Kittson	spray leachate	0.235	0.00749	ND
Blue Earth County	MSW	Blue Earth	spray leachate	0.591	0.576	ND
Rice County	MSW	Rice County	spray leachate	0.422	0.155	ND
Crow Wing	MSW	Crow Wing	spray leachate	1.3	0.127	ND
Morrison	MSW	Morrison	spray leachate	0.41	ND	ND
St. Louis Regional	MSW	St. Louis	spray leachate	0.753	0.365	0.0532

Notes:

1. As a reference, proposed HRLs for these compounds are: PFOS – 0.30 ppb; PFOA – 0.50 ppb; PFBA – 1.00 ppb (currently a guideline).
2. (high - low): References highest concentration detected in a sample from a site and the lowest concentration detected.
3. ND: The parameter was not detected.
4. MSW: Municipal solid waste
5. spray leachate: Leachate that has been pre-treated prior to spray irrigating on site.