

Site (coordinates)	Sources	Distance km (mean)	Sector direction; opening	Sampling period;	n	Avg T (°C)	Context
Genesee (114.14° W, 53.31° N)	Coal-fired power plants	7–35	NW, 35°	30/09/2010– 21/06/2011	6	11.7, 12.2, 5.5, −9.8, −0.9, 12.2	3 plants
Vauxhall (112.11° W, 50.06° N)	Gas compres- sors and cattle and swine feedlots	12–125+; 7.5–45+	W, 65°	25/10/2011– 13/12/2011	3	2.6, 0.7, −3.5	65+ compressors; 200+ feedlots
Terrace Heights (113.44° W, 53.54° N)	Urban traffic	< 1–15 (4)	W, 150°	24/07/2012– 25/10/2012	4	20.3, 15.6, 7.9, −1.8	Park in residential area, 3.5 km east of downtown core
Fort Saskatchewan (113.14° W, 53.72° N)	Chemical industries and metal refining	3–7 (4)	NW, 88°	12/04/2013– 06/09/2013	4	4.3, 15.7, 16.3, 17.7	Chemical plant and metal refi- nery largest NO _x sources; fertilizer plant largest NH ₃ source
Fort Saskatchewan (113.14° W, 53.72° N)	Fertilizer plant and oil refinery	9–14 (11)	N, 27°	20/09/2013– 20/01/2014	1	−8.1	Fertilizer plant largest NH ₃ and NO _x source, oil refinery major NO _x source