

2026 Calgary ECCO Recycling Facility Fire Data Summary

Prepared by Alberta Environment and Protected Areas on September 13, 2026

Context

On September 6, 2026, a fire began in a recycling facility in SE Calgary. Alberta Environment and Protected Areas (EPA) has deployed additional mobile monitoring equipment to collect air quality data on pollutants of interest. Equipment was deployed on September 9th, 2026, and monitoring continues as of September 13, 2026.

Air quality monitoring in Alberta by EPA uses methods and instrumentation to recognized standards, where those standards are available. Air quality parameters that are commonly measured and used to generate the national Air Quality Health Index (AQHI) include fine particulate matter (PM_{2.5}), nitrogen dioxide (NO₂) and ground-level ozone (O₃). This formulation provides a robust indicator of health risk and ranges from 1 (low risk) to 10+ (very high risk).

In Alberta, the national AQHI formulation is augmented to better account for rapidly changing air quality and to include additional pollutants. The national formula is enhanced when appropriate criteria are met to better reflect air quality conditions experienced by Albertans, including the current recycling fire in SE Calgary. The following pollutants are considered in Alberta's AQHI:

- Carbon monoxide (CO)
- Fine particulate matter (PM_{2.5})
- Hydrogen sulphide and total reduced sulphur (H₂S and TRS)
- Nitrogen dioxide (NO₂)
- Ozone (O₃)
- Sulphur dioxide (SO₂)

In addition to the generation of the AQHI value, hourly concentrations of each pollutant are compared against Alberta's Ambient Air Quality Objectives (AAAQOs). Measured values above these guideline levels are considered exceedances in air quality for that specific parameter. For fine particulate matter, the enhanced formula for hourly concentrations is consistent with bordering provinces and territories for harmonized reporting of air quality conditions, especially during smoke events.

More information on Alberta's Ambient Air Quality Objectives (AAAQOs) and Guidelines (AAAQGs) can be found at <https://www.alberta.ca/alberta-ambient-air-quality-objectives-and-guidelines>

The following AAAQ Objectives and Guidelines are used for comparison in this report:

- 1-hour AAAQG for fine particulate matter (PM_{2.5}) = 80 µg/m³
- 24-hour AAAQO for PM_{2.5} = 29 µg/m³
- 1-hour AAAQO for ozone (O₃) = 0.076 ppm
- 1-hour AAAQO for nitrogen dioxide (NO₂) = 0.159 ppm
- 1-hour AAAQO for carbon monoxide (CO) = 13 ppm

- 1-hour for sulphur dioxide (SO₂) = 0.172 ppm

Hourly averages for all parameters are included in the summary table. Selected parameters are shown in the time series figures provided following the table for comparison with the AAAQO/Gs.

Report Contents

This document provides a map, data table, daily summaries, and time series figures of data collected by the Beta Attenuation Mass Monitoring (E-BAM) instrument and Mobile Air Monitoring Laboratory (MAML) at various locations. The MAML has collected data from six different locations to track the smoke plume with changes in wind direction while E-BAMs have been collecting data at two locations. Locations are shown in the map on the next page.

Two canister samples have also been submitted to InnoTech Alberta for analysis for over 100 compounds including Volatile Organic Compounds (VOCs) and Reduced Sulphur Compounds (RSCs). EPA is awaiting the results of these analyses. The results will be analyzed for detection of the compounds and will be compared to AAAQOs, where applicable. Additional canister samples will be taken if needed.

Note: The air quality monitoring data presented here are preliminary and should be considered “raw data”. These data have not undergone full quality assurance and quality control (QA/QC) review, with minimal data checks conducted. The information presented does not include health risk interpretation.

Additional Publicly Available Data

This report only includes data from additional monitoring deployed in response to the fire that is not already available to the public. Additional air quality data can also be accessed from:

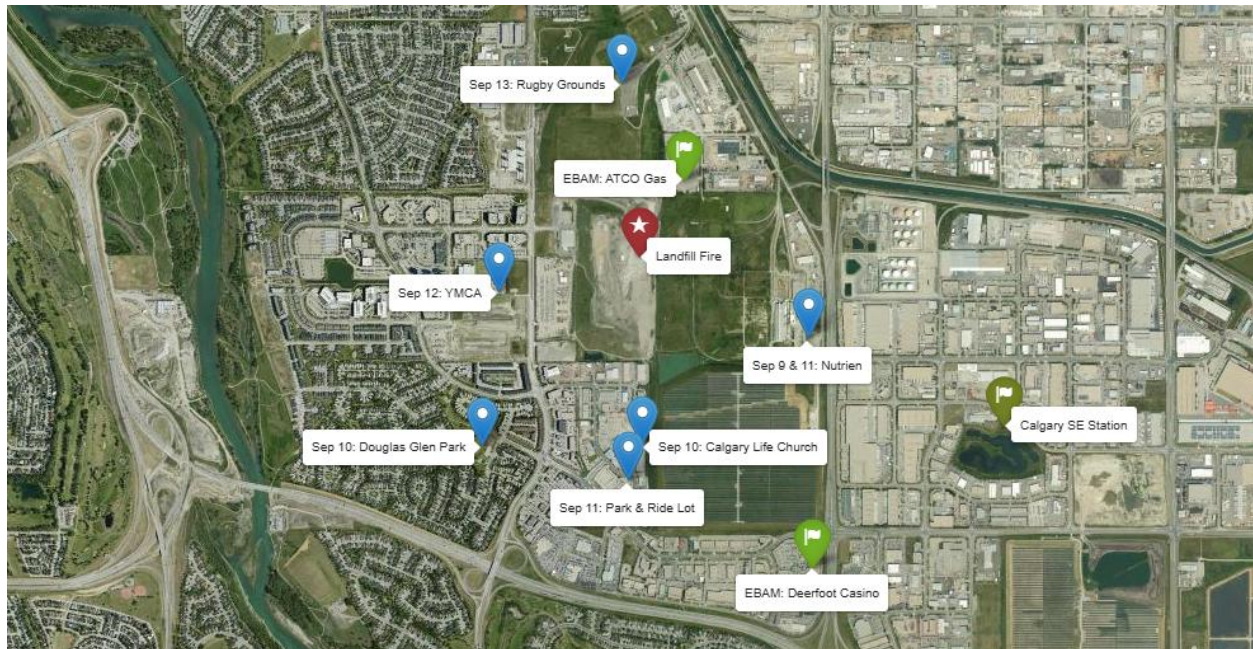
- **Air Quality Health Index (AQHI) Map:** <https://airquality.alberta.ca/map/>
 - Real-time hourly AQHI values for the community.
 - Individual station concentrations can be found in the **Query & Download** tab.
 - The closest permanent station is the **Calgary Southeast** station.
- **PurpleAir Sensors:** <https://cyclone.unbc.ca/aqmap/en/#4/60.87/-110.83/street?layers=fem,pa,egg>
 - A PurpleAir sensor has been deployed at the YMCA west of the facility. Raw data can be accessed publicly at: <https://map.purpleair.com/air-quality-standards-aqhi-plus?opt=%2F1%2F1p%2Fa10%2Fp604800%2FcC0#16.2/50.961392/-114.005669>
 - By default, this site provides a “Canadian PM_{2.5} AQHI+” (based only on PM_{2.5}) that should not be confused with the AQHI (based on PM_{2.5}, O₃, and NO₂). The actual PM_{2.5} concentrations should be looked at instead. To switch to PM_{2.5} concentration:

select the gear on the top left > Change the data layer to “Raw PM_{2.5} µg/m³” and select averaging period “1-hour”.

- EPA has been in the process of making **E-BAM data** available on the AQHI Map page. Data availability is dependent on equipment operation and communications. When available, E-BAM data can be viewed on the AQHI Map page: <https://airquality.alberta.ca/map/> “**Query & Download**” > By Parameters > select under Alberta EP “E-BAM ATCO” and/or “E-BAM Deerfoot Casino” > Parameter “Fine Particulate Matter – PM_{2.5}”

Monitoring Locations

The map below shows air monitoring locations. Red indicates approximate location of the fire. Blue indicates locations where the MAML has been located. Light green indicates locations where E-BAMs are located. Darker green indicates the location of the permanent Calgary Southeast air monitoring station.



Deployment dates are as follows:

- Nutrien Parking Lot - September 9, 2026 from 11am to 5pm MST
- Douglas Glen Park - September 10th, 2026 from 8am to 10am MST
- Calgary City Church - September 10th, 2026 from 11am to 5pm MST
- Park & Ride Lot - September 11, 2026 from 8am to 11am MST
- Nutrien Parking Lot - September 11, 2026 from 12pm to 2pm MST
- YMCA Parking Lot - September 12, 2026 from 12 pm to 5pm MST
- Rugby Grounds Lot – September 13, 2026 from 8am to 5pm MST

Summary of Results

Air Quality Data

	CO	O3	THC	NMHC	CH4	NO	NOx	NO2	NH3	SO2	H2S	TRS	PM10	PM2_5	PM1	PAH	Longitude	Latitude	Location
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	ug/m3	ug/m3	ug/m3	ngr/m3	Deg	Deg	
AAAQO (1hr)	13.0	0.076	-	-	-	-	-	0.159	2.0	0.172	0.01	-	-	80 (AAAQG)	-	-	-	-	
AAAQO (8hr)	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AAAQO (24hr)	-	-	-	-	-	-	-	-	-	0.048	0.003	-	-	29	-	-	-	-	
Date&Time (MST)																			
2026-09-09 11:00	1.7	0.0382	2.44	0.25	2.19	0.0021	0.0120	0.0099	0.0056	0.0144	0.0036	0.0050	156.2	123.5	97.2	0.1	-113.9825	50.9587	Nutrien Parking Lot
2026-09-09 12:00	1.3	0.0348	2.11	0.02	2.09	0.0020	0.0060	0.0040	0.0061	0.0043	0.0005	0.0013	68.4	41.7	30.8	0.1	-113.9825	50.9587	Nutrien Parking Lot
2026-09-09 13:00	1.4	0.0377	2.21	0.08	2.14	0.0017	0.0063	0.0047	0.0065	0.0052	0.0017	0.0029	116.3	91.3	66.8	0.3	-113.9825	50.9587	Nutrien Parking Lot
2026-09-09 14:00	1.7	0.0397	2.31	0.12	2.19	0.0015	0.0101	0.0085	0.0068	0.0102	0.0020	0.0035	146.3	111.2	85.9	0.3	-113.9825	50.9587	Nutrien Parking Lot
2026-09-09 15:00	2.1	0.0423	2.69	0.38	2.31	0.0022	0.0185	0.0163	0.0079	0.0236	0.0031	0.0049	194.8	149.3	125.0	0.2	-113.9825	50.9587	Nutrien Parking Lot
2026-09-09 16:00	2.1	0.0390	2.72	0.39	2.33	0.0015	0.0161	0.0145	0.0108	0.0201	0.0037	0.0054	188.2	150.2	124.6	0.2	-113.9825	50.9587	Nutrien Parking Lot
2026-09-10 8:00	1.1	0.0246	1.99	0.00	1.99	0.0006	0.0083	0.0077	0.0110	0.0001	0.0003	0.0014	13.7	7.3	5.5	0.0	-114.0046	50.9541	Douglas Glen Park
2026-09-10 9:00	1.2	0.0249	1.98	0.00	1.98	0.0019	0.0134	0.0114	0.0094	0.0000	0.0002	0.0010	13.0	3.1	1.5	0.1	-114.0046	50.9541	Douglas Glen Park
2026-09-10 11:00	1.2	0.0291	2.09	0.06	2.03	0.0015	0.0110	0.0095	0.0085	0.0000	0.0008	0.0017	48.8	43.3	35.0	0.2	-113.9942	50.9542	Calgary City Church
2026-09-10 12:00	1.1	0.0328	2.02	0.03	1.99	0.0011	0.0082	0.0071	0.0067	0.0000	0.0001	0.0009	19.3	16.2	12.5	2.2	-113.9941	50.9541	Calgary City Church
2026-09-10 13:00	1.8	0.0357	1.99	0.00	1.99	0.0030	0.0100	0.0071	0.0060	0.0000	0.0000	0.0003	2.5	1.6	1.0	0.6	-113.9941	50.9542	Calgary City Church
2026-09-10 14:00	2.2	0.0375	2.04	0.00	2.04	0.0046	0.0127	0.0081	0.0071	0.0000	0.0000	0.0004	8.2	5.7	4.4	0.9	-113.9941	50.9542	Calgary City Church
2026-09-10 15:00	2.0	0.0369	2.35	0.22	2.13	0.0035	0.0149	0.0114	0.0077	0.0013	0.0016	0.0027	129.9	111.5	83.8	0.3	-113.9941	50.9542	Calgary City Church
2026-09-10 16:00	2.4	0.0424	3.32	0.85	2.46	0.0017	0.0121	0.0103	0.0092	0.0085	0.0083	0.0102	361.3	312.6	224.1	13.0	-113.9942	50.9542	Calgary City Church
2026-09-11 8:00	0.6	0.0120	2.02	0.00	2.02	0.0054	0.0152	0.0099	0.0089	0.0003	0.0001	0.0015	12.9	2.9	1.3	1.2	-113.9952	50.9526	Park & Ride Lot
2026-09-11 9:00	0.5	0.0160	2.02	0.00	2.02	0.0047	0.0102	0.0057	0.0076	0.0000	0.0000	0.0004	11.5	3.1	1.6	0.1	-113.9952	50.9526	Park & Ride Lot

2026-09-11 10:00	0.5	0.0170	2.01	0.00	2.01	0.0024	0.0060	0.0036	0.0067	0.0000	0.0000	0.0002	10.2	3.1	1.6	0.1	-113.9952	50.9526	Park & Ride Lot
2026-09-11 12:00	0.5	0.0194	2.05	0.00	2.05	0.0016	0.0045	0.0029	0.0053	0.0000	0.0000	0.0001	19.3	3.7	1.2	0.2	-113.9825	50.9583	Nutrien Parking Lot
2026-09-11 13:00	0.6	0.0213	2.07	0.02	2.06	0.0010	0.0037	0.0027	0.0049	0.0002	0.0002	0.0003	51.2	20.2	13.0	0.1	-113.9825	50.9583	Nutrien Parking Lot
2026-09-12 12:00	0.6	0.0180	2.23	0.06	2.16	0.0022	0.0072	0.0050	NA	0.0002	0.0004	0.0016	73.8	42.7	26.7	5.5	-114.0039	50.9607	YMCA Parking Lot
2026-09-12 13:00	0.4	0.0184	2.09	0.00	2.09	0.0026	0.0071	0.0045	0.0051	0.0001	0.0001	0.0007	35.6	15.1	9.5	1.7	-114.0039	50.9607	YMCA Parking Lot
2026-09-12 14:00	0.7	0.0202	2.14	0.01	2.13	0.0030	0.0072	0.0042	0.0074	0.0001	0.0003	0.0009	34.3	19.9	13.2	0.3	-114.0039	50.9607	YMCA Parking Lot
2026-09-12 15:00	0.6	0.0221	2.21	0.03	2.18	0.0018	0.0070	0.0052	0.0075	0.0003	0.0007	0.0016	72.4	48.5	32.8	2.3	-114.0039	50.9607	YMCA Parking Lot
2026-09-12 16:00	2.7	0.0220	2.11	0.01	2.10	0.0071	0.0121	0.0050	0.0083	0.0001	0.0003	0.0007	27.4	14.8	11.0	2.0	-114.0039	50.9607	YMCA Parking Lot
2026-09-13 8:00	0.5	0.0107	2.51	0.00	2.51	0.0039	0.0097	0.0057	0.0080	0.0000	0.0007	0.0014	26.8	20.8	15.6	1.2	-113.9957	50.9696	Rugby Grounds Lot
2026-09-13 9:00	0.4	0.0162	2.18	0.00	2.18	0.0021	0.0049	0.0028	0.0180	0.0000	0.0002	0.0009	10.1	6.8	5.6	0.1	-113.9957	50.9696	Rugby Grounds Lot
2026-09-13 10:00	0.4	0.0220	2.09	0.00	2.09	0.0010	0.0031	0.0021	0.0141	0.0000	0.0000	0.0005	50.0	10.4	5.1	0.3	-113.9957	50.9696	Rugby Grounds Lot
2026-09-13 11:00	0.4	0.0273	2.07	0.00	2.07	0.0009	0.0030	0.0021	0.0106	0.0000	0.0000	0.0005	60.4	15.6	7.4	0.1	-113.9957	50.9696	Rugby Grounds Lot
2026-09-13 12:00	0.6	0.0278	2.42	0.06	2.37	0.0009	0.0040	0.0031	0.0087	0.0001	0.0010	0.0018	76.7	57.0	33.9	0.1	-113.9957	50.9696	Rugby Grounds Lot
2026-09-13 13:00	0.4	0.0253	2.07	0.00	2.07	0.0010	0.0039	0.0028	0.0075	0.0000	0.0001	0.0004	49.3	15.7	7.6	0.1	-113.9957	50.9696	Rugby Grounds Lot
2026-09-13 14:00	0.7	0.0247	2.66	0.20	2.46	0.0031	0.0088	0.0058	0.0070	0.0002	0.0023	0.0028	128.6	86.9	48.5	0.2	-113.9957	50.9696	Rugby Grounds Lot
2026-09-13 15:00	0.7	0.0220	2.30	0.14	2.16	0.0029	0.0076	0.0047	0.0064	0.0000	0.0008	0.0014	111.6	97.2	64.9	0.2	-113.9957	50.9696	Rugby Grounds Lot
2026-09-13 16:00	0.4	0.0183	2.08	0.02	2.06	0.0029	0.0079	0.0050	0.0062	0.0000	0.0001	0.0005	15.9	14.1	9.6	0.1	-113.9957	50.9696	Rugby Grounds Lot
Total Number of Hourly Exceedances	0	0						0	0	0	0			9					

Shaded boxes indicate exceedances of the AAAQO/Gs.

Note: The air quality monitoring data presented here are preliminary and should be considered “raw data”. These data have not undergone full quality assurance and quality control (QA/QC) review, with minimal data checks conducted. The information presented does not include health risk interpretation.

Meteorological Data

Date&Time (MST)	WS kph	WD Deg	Temp DegC	BP mmhg	RH %	Longitude Deg	Latitude Deg	Location
2026-09-09 11:00	13.5	300.1	22.1	672.7	32.1	-113.9825	50.9587	Nutrien Parking Lot
2026-09-09 12:00	15.2	275.9	22.9	672.1	31.6	-113.9825	50.9587	Nutrien Parking Lot
2026-09-09 13:00	13.4	305.2	23.3	671.6	30.0	-113.9825	50.9587	Nutrien Parking Lot
2026-09-09 14:00	15.1	321.7	23.4	671.1	30.2	-113.9825	50.9587	Nutrien Parking Lot
2026-09-09 15:00	13.5	308.2	24.1	670.8	30.1	-113.9825	50.9587	Nutrien Parking Lot
2026-09-09 16:00	12.0	301.1	24.0	670.4	30.6	-113.9825	50.9587	Nutrien Parking Lot
2026-09-10 8:00	8.4	295.1	12.2	669.0	77.2	-114.0046	50.9541	Douglas Glen Park
2026-09-10 9:00	6.2	258.9	12.7	668.9	73.6	-114.0046	50.9541	Douglas Glen Park
2026-09-10 11:00	14.2	26.6	10.6	669.1	85.1	-113.9942	50.9542	Calgary City Church
2026-09-10 12:00	12.1	41.4	10.1	669.4	85.7	-113.9941	50.9541	Calgary City Church
2026-09-10 13:00	4.3	72.0	10.5	669.2	81.6	-113.9941	50.9542	Calgary City Church
2026-09-10 14:00	5.1	237.6	11.9	669.3	73.4	-113.9941	50.9542	Calgary City Church
2026-09-10 15:00	10.9	208.0	12.2	669.9	73.2	-113.9941	50.9542	Calgary City Church
2026-09-10 16:00	15.9	206.5	10.8	670.4	61.7	-113.9942	50.9542	Calgary City Church
2026-09-11 8:00	9.0	334.9	9.6	674.5	68.2	-113.9952	50.9526	Park & Ride Lot
2026-09-11 9:00	12.1	239.8	10.1	674.9	67.7	-113.9952	50.9526	Park & Ride Lot
2026-09-11 10:00	13.3	311.3	10.6	675.1	65.2	-113.9952	50.9526	Park & Ride Lot
2026-09-11 12:00	17.5	314.8	11.7	674.1	57.5	-113.9825	50.9583	Nutrien Parking Lot
2026-09-11 13:00	14.1	326.0	12.5	674.1	52.5	-113.9825	50.9583	Nutrien Parking Lot
2026-09-12 12:00	10.3	61.3	8.7	676.3	71.4	-114.0039	50.9607	YMCA Parking Lot
2026-09-12 13:00	8.3	76.1	9.7	676.3	67.9	-114.0039	50.9607	YMCA Parking Lot
2026-09-12 14:00	8.1	69.0	11.0	676.0	63.3	-114.0039	50.9607	YMCA Parking Lot
2026-09-12 15:00	7.4	69.4	11.2	675.6	61.6	-114.0039	50.9607	YMCA Parking Lot
2026-09-12 16:00	4.4	150.7	11.9	675.5	59.1	-114.0039	50.9607	YMCA Parking Lot

026-09-13 8:00	7.4	189.5	4.8	671.8	95.3	-113.9957	50.9696 Rugby Grounds Lot
2026-09-13 9:00	14.0	152.7	8.1	671.2	83.3	-113.9957	50.9696 Rugby Grounds Lot
2026-09-13 10:00	20.5	153.3	11.4	670.5	69.0	-113.9957	50.9696 Rugby Grounds Lot
2026-09-13 11:00	26.0	160.7	13.3	669.9	59.4	-113.9957	50.9696 Rugby Grounds Lot
2026-09-13 12:00	24.7	172.3	13.0	669.6	59.4	-113.9957	50.9696 Rugby Grounds Lot
2026-09-13 13:00	26.6	159.5	12.5	669.4	60.8	-113.9957	50.9696 Rugby Grounds Lot
2026-09-13 14:00	23.9	169.0	12.2	668.9	63.0	-113.9957	50.9696 Rugby Grounds Lot
2026-09-13 15:00	22.3	164.4	9.6	668.7	80.1	-113.9957	50.9696 Rugby Grounds Lot
2026-09-13 16:00	18.8	155.8	9.3	668.3	86.8	-113.9957	50.9696 Rugby Grounds Lot

WS = wind speed, WD = wind direction, BP = barometric pressure, RH = relative humidity

Note: The meteorological data should be considered “raw data”. These data have not undergone full quality assurance and quality control (QA/QC) review, with minimal data checks conducted.

Daily Summary of Results

Note: The time stamps reported by the MAML are in Mountain Standard Time (MST).

September 9, 2026:

Air monitoring has deployed the MAML, 1 EBAM, and collected canister samples.

MAML

- The MAML was located in the Nutrien Parking Lot. There were exceedances of the 1-hour Alberta Ambient Air Quality Guideline (AAAQG) of PM_{2.5} (80 µg/m³) but there were no exceedances of Alberta Ambient Air Quality Objectives (AAAQO) for other parameters.
- PM_{2.5}
 - 1100: 123.5 µg/m³
 - 1200: 41.7 µg/m³
 - 1300: 91.3 µg/m³
 - 1400: 111.2 µg/m³
 - 1500: 149.3 µg/m³
 - 1600: 150.2 µg/m³

EBAM

- PM_{2.5} recorded moderate/low concentrations (1-hr average below 30 µg/m³) at the E-BAM located at the Deerfoot Casino as the wind is blowing from the NW.

Canister

Canister samples were collected but require analysis by the lab and are not yet available.

September 10, 2026:

Air monitoring has deployed the MAML in various locations and 2 EBAMs.

MAML

- The MAML was located in Douglas Glen Park the morning of September 10, 2026, which is within a residential area. There were no exceedances of the AAAQG.
- PM_{2.5}
 - 800: 7.3 µg/m³
 - 900: 3.1 µg/m³
- The MAML moved to the Calgary City Church. There were exceedances of the PM_{2.5} 1-hour AAAQG of 80 µg/m³ but there were no exceedances of AAQOs for other parameters.
- PM_{2.5}
 - 1100: 43.3 µg/m³
 - 1200: 16.2 µg/m³
 - 1300: 1.6 µg/m³
 - 1400: 5.7 µg/m³
 - 1500: 111.5 µg/m³
 - 1600: 312.6 µg/m³

EBAM

- PM_{2.5} has remained below the PM_{2.5} 1-hr average AAAQG of 80 µg/m³ at the E-BAM located at Deerfoot Casino (1-hour average reaching a maximum of 74 µg/m³).
- The E-BAM located at ATCO showed PM_{2.5} concentrations exceeding the 1-hour PM_{2.5} AAAQG in the late evening (1-hour average as high as 360 µg/m³). PM_{2.5} was below the AAAQG by midnight.

Canister

- Samples were delivered to the laboratory this morning; results are pending.

September 11, 2026:

MAML

- The MAML was located at the Park & Ride Lot. There were no exceedances of the AAAQO/Gs.
- PM_{2.5}
 - 0800: 2.9 µg/m³
 - 0900: 3.1 µg/m³
 - 1000: 3.1 µg/m³
- The MAML was moved to the Nutrien Parking Lot. There were no exceedances of the AAAQO/Gs.
- PM_{2.5}
 - 1200: 3.7 µg/m³
 - 1300: 20.2 µg/m³

EBAM

- Overnight and into the morning, PM_{2.5} concentrations were reported by the E-BAM at the Deerfoot Casino location exceeding the 1-hour PM_{2.5} AAAQG of 80 µg/m³ (1-hour average reaching a maximum of 145 µg/m³). PM_{2.5} was below the AAAQG by mid-morning and remained below throughout the day. An exceedance of the 24-hour PM_{2.5} AAAQO (29 µg/m³) of 30.5 µg/m³ occurred on September 11, 2026.
- PM_{2.5} concentrations at the E-BAM located at ATCO remained low (1-hour average below 15 µg/m³).

September 12, 2026:

MAML

- The MAML was located at the YMCA Parking Lot. There were no exceedances of the AAAQO/Gs.
- PM_{2.5}
 - 1200: 42.7 µg/m³
 - 1300: 15.1 µg/m³
 - 1400: 19.9 µg/m³
 - 1500: 48.5 µg/m³
 - 1600: 14.8 µg/m³

EBAM

- PM_{2.5} concentrations at the E-BAM located at Deerfoot Casino remained low (1-hr averages below 13 µg/m³).
- PM_{2.5} concentrations at the E-BAM located at ATCO remained low (1-hr average below 10 µg/m³).

Purple Air Sensor

- A PurpleAir sensor was deployed at the YMCA west of the facility. The PurpleAir sensor reported low to moderate PM_{2.5} concentrations from 3 pm to 6 pm today. Raw data can be accessed publicly at: <https://map.purpleair.com/air-quality-standards-aqhi-plus?opt=%2F1%2F1p%2Fa10%2Fp604800%2FcC0#16.2/50.961392/-114.005669>

September 13, 2026:

MAML

- The MAML was deployed at the Rugby Grounds Lot. There were exceedances of the PM_{2.5} 1-hour AAAQG of 80 µg/m³ but there were no exceedances of Alberta Ambient Air Quality Objectives (AAAQO) for other parameters.
- PM_{2.5}
 - 0800: 20.8 µg/m³
 - 0900: 6.8 µg/m³
 - 1000: 10.4 µg/m³
 - 1100: 15.6 µg/m³
 - 1200: 57.0 µg/m³
 - 1300: 15.7 µg/m³
 - 1400: 86.9 µg/m³
 - 1500: 97.2 µg/m³
 - 1600: 14.1 µg/m³

EBAM

- PM_{2.5} concentrations at the E-BAM located at Deerfoot Casino remained low (1-hr averages below 24 µg/m³).
- PM_{2.5} concentrations at the E-BAM located at ATCO remained low (1-hr average below 19 µg/m³).

Note: This report contains information up to 1700 MDT on September 13, 2026.

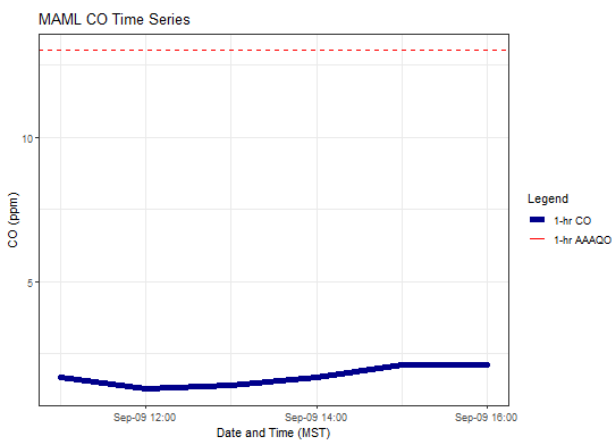
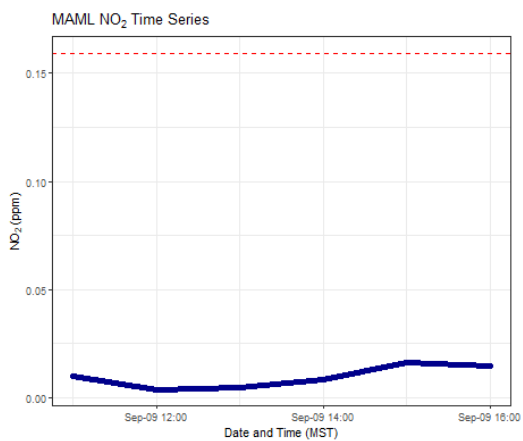
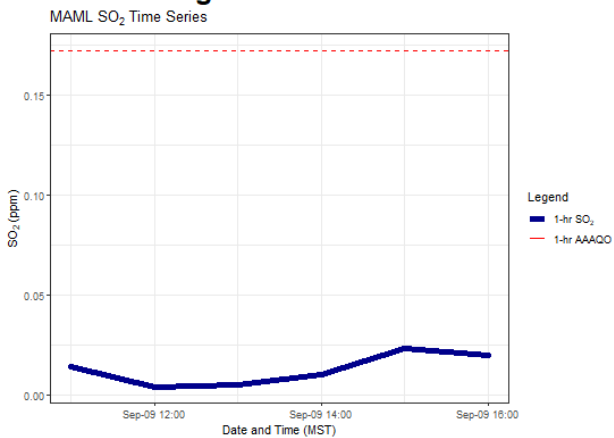
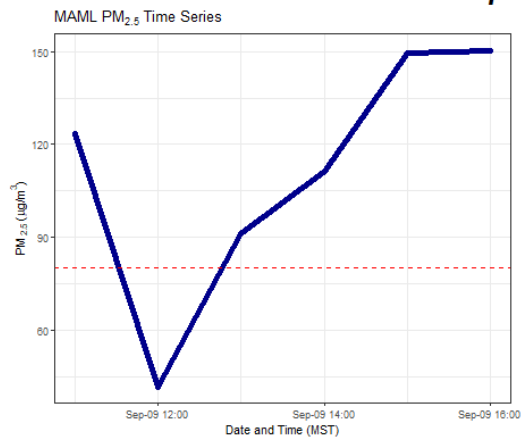
Results from the Mobile Air Monitoring Lab (MAML)

Timestamps are in Mountain Standard Time (MST). As per AAAQO/G reporting standards, the blue line represents the 1-hour average and red dashed line is AAAQO/G.

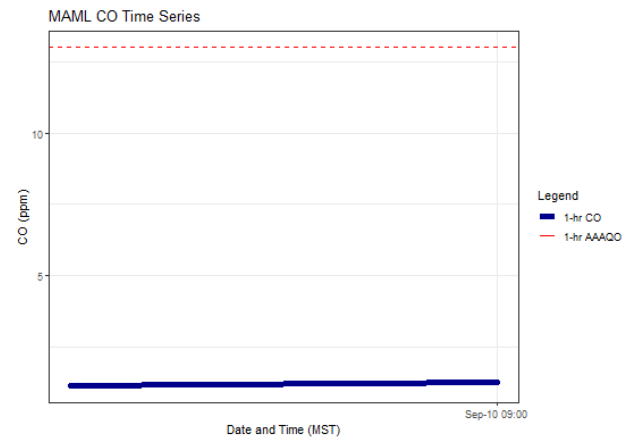
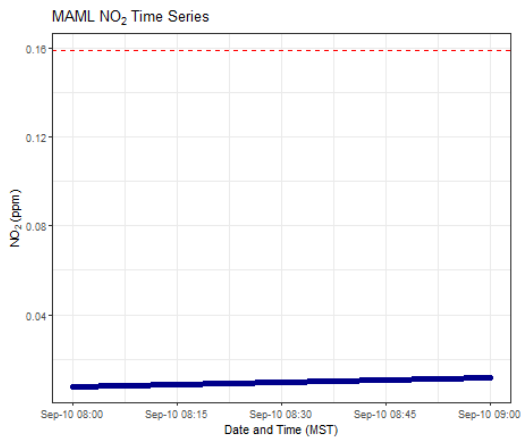
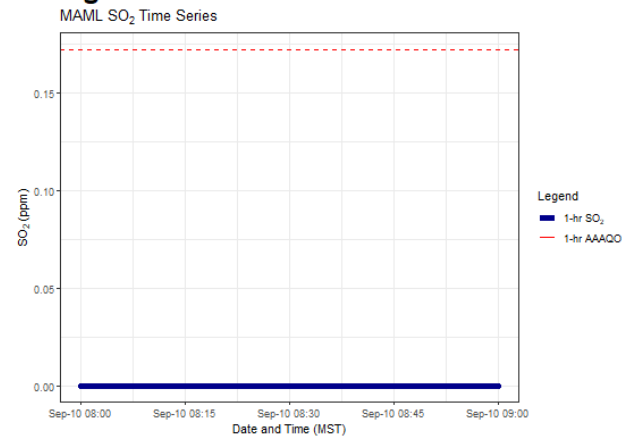
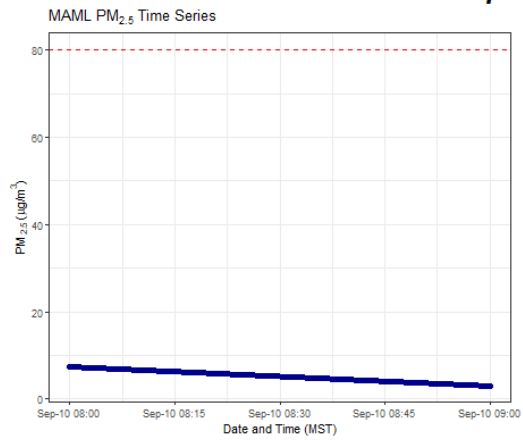
The 1-hour AAAQGs for $PM_{2.5} = 80 \mu g/m^3$.

The 1-hour AAAQOs are $NO_2 = 0.159 \text{ ppm}$, $CO = 13 \text{ ppm}$, $SO_2 = 0.172 \text{ ppm}$.

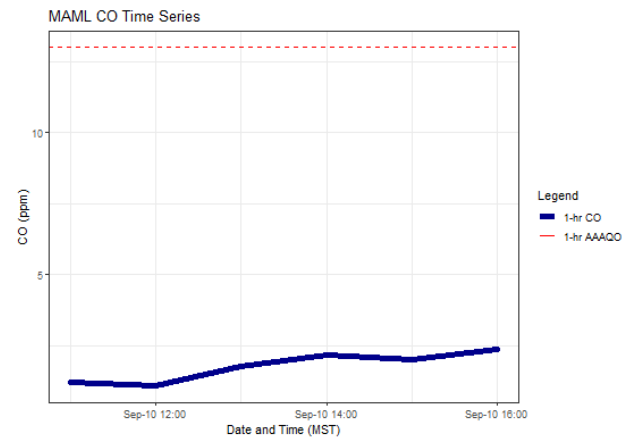
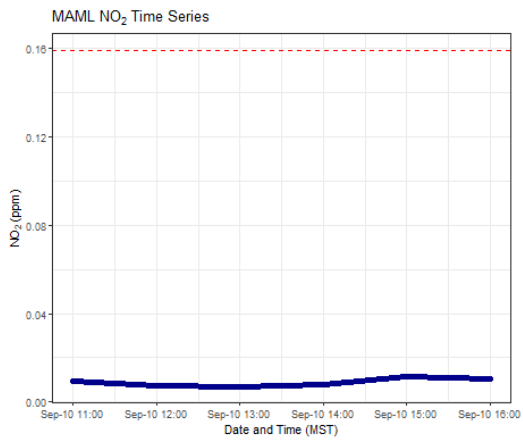
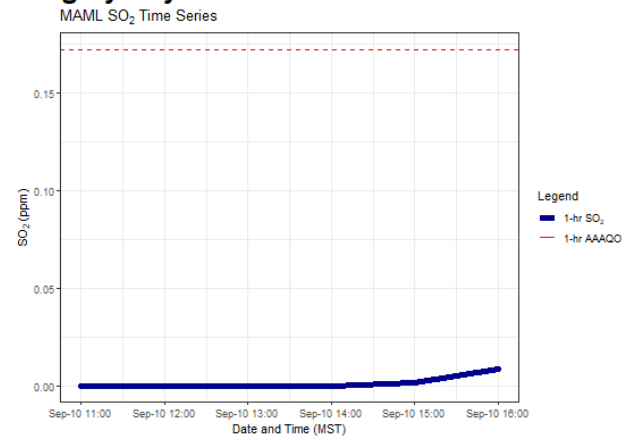
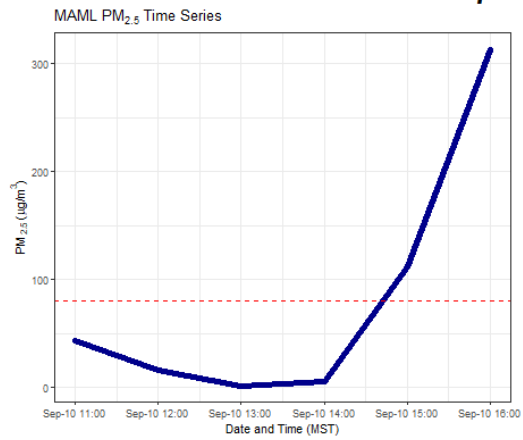
MAML September 9 Nutrien Parking Lot



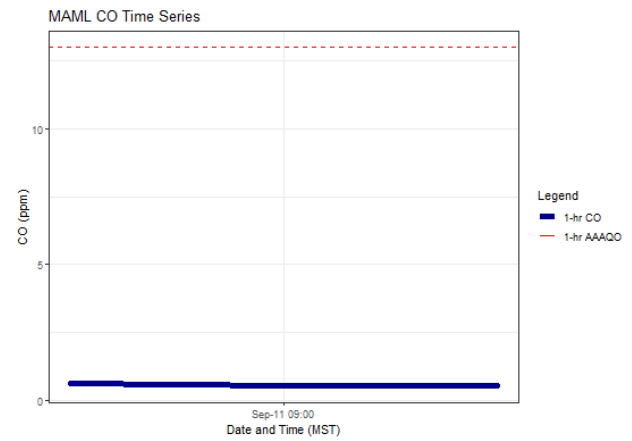
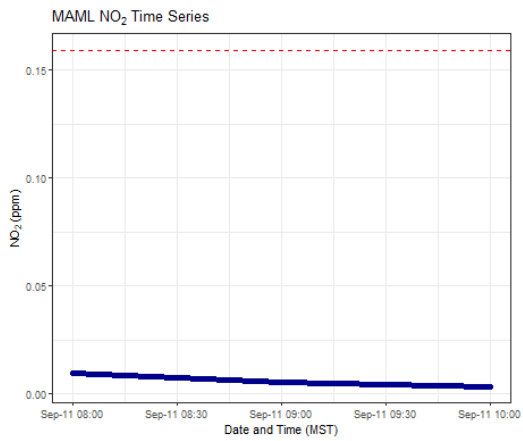
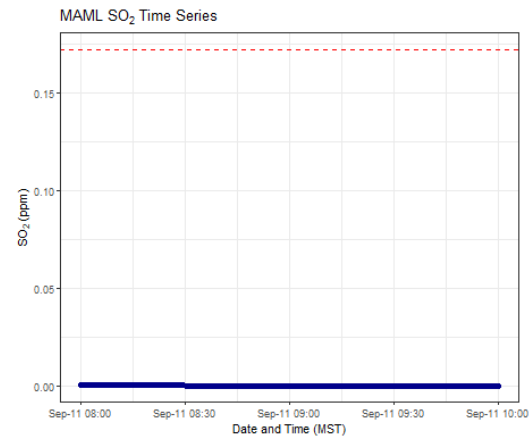
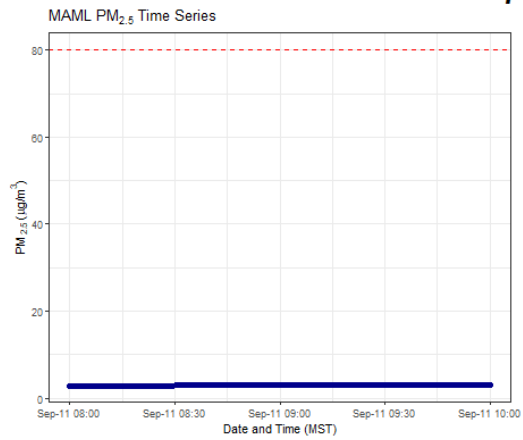
MAML September 10 Douglas Glen Park



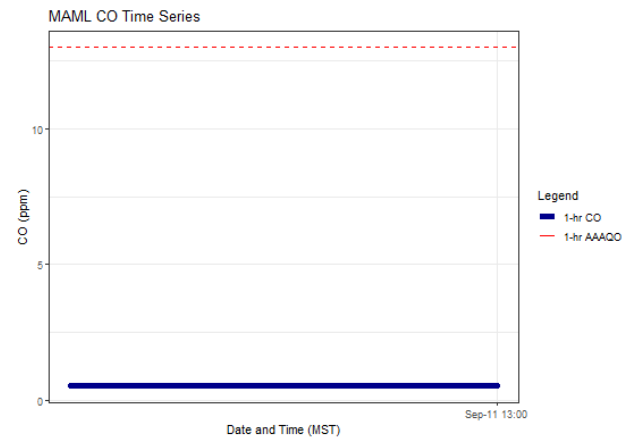
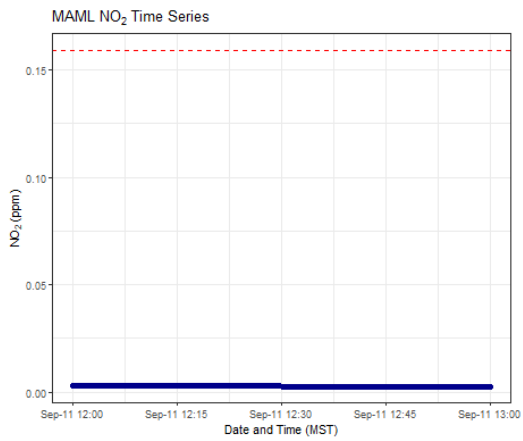
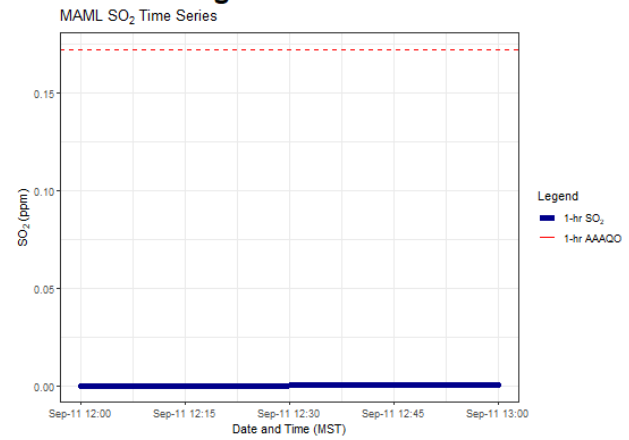
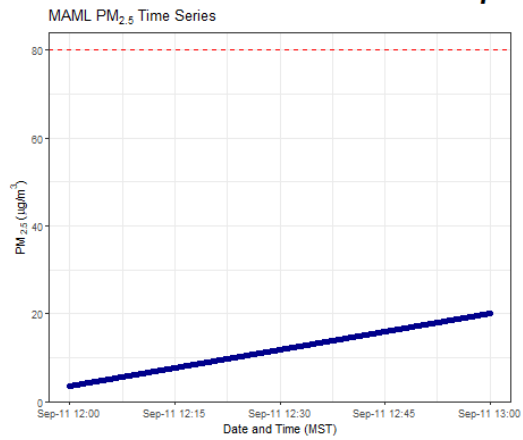
MAML September 10 Calgary City Church



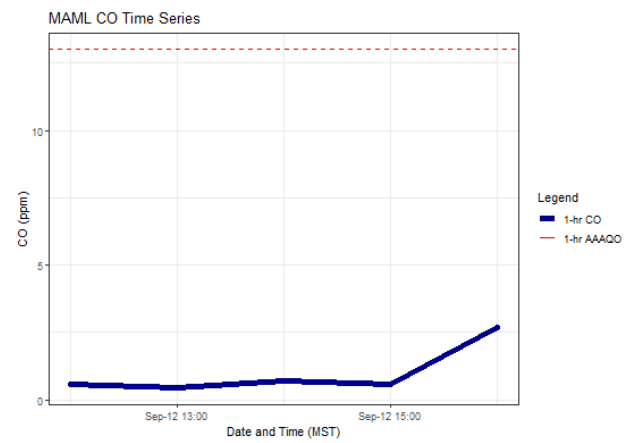
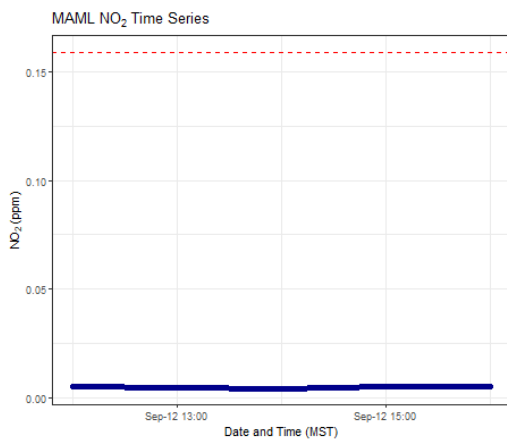
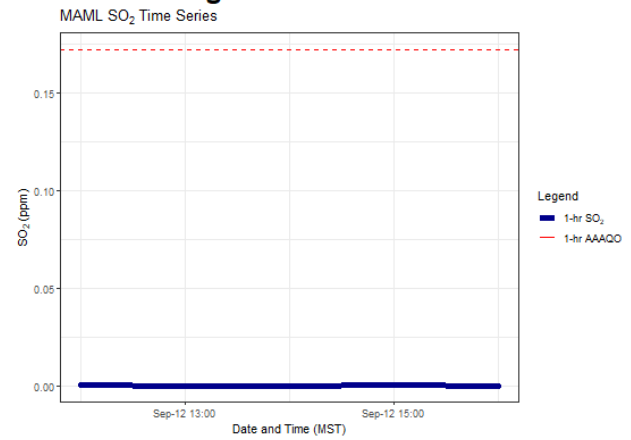
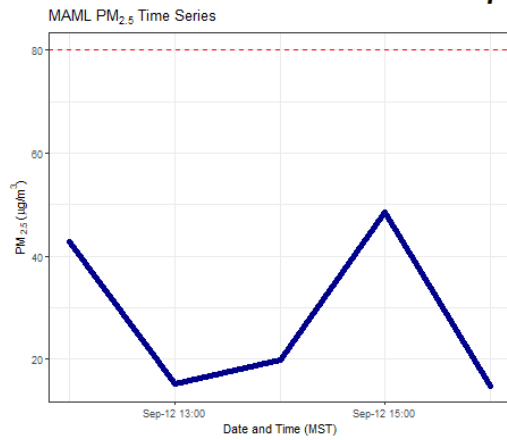
MAML September 11 Park & Ride Lot



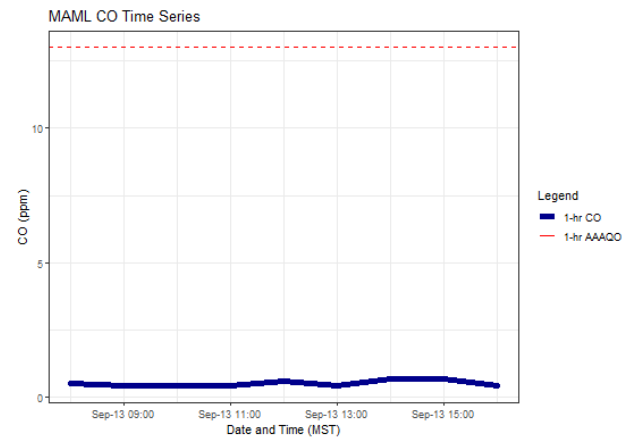
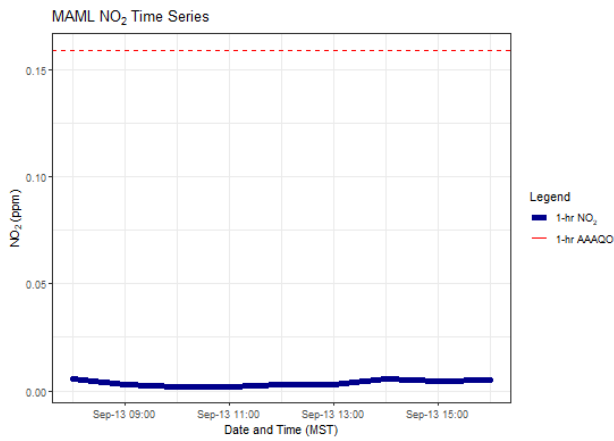
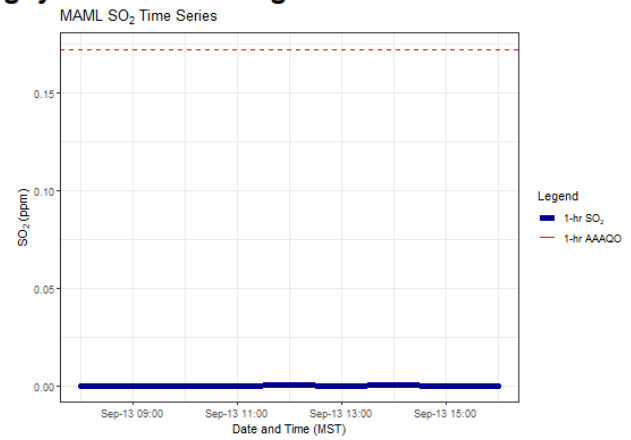
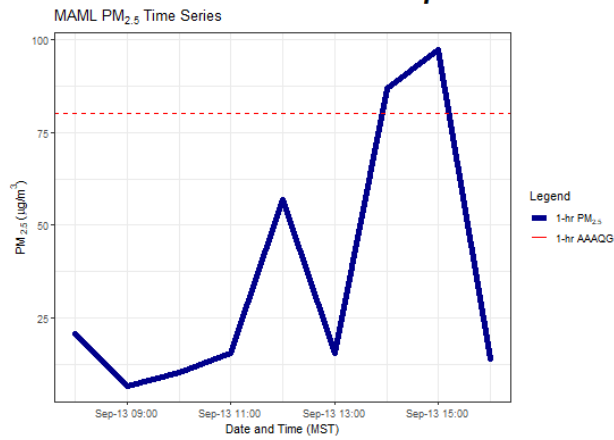
MAML September 11 Nutrien Parking Lot



MAML September 12 YMCA Parking Lot



MAML September 13 Rugby Grounds Parking Lot

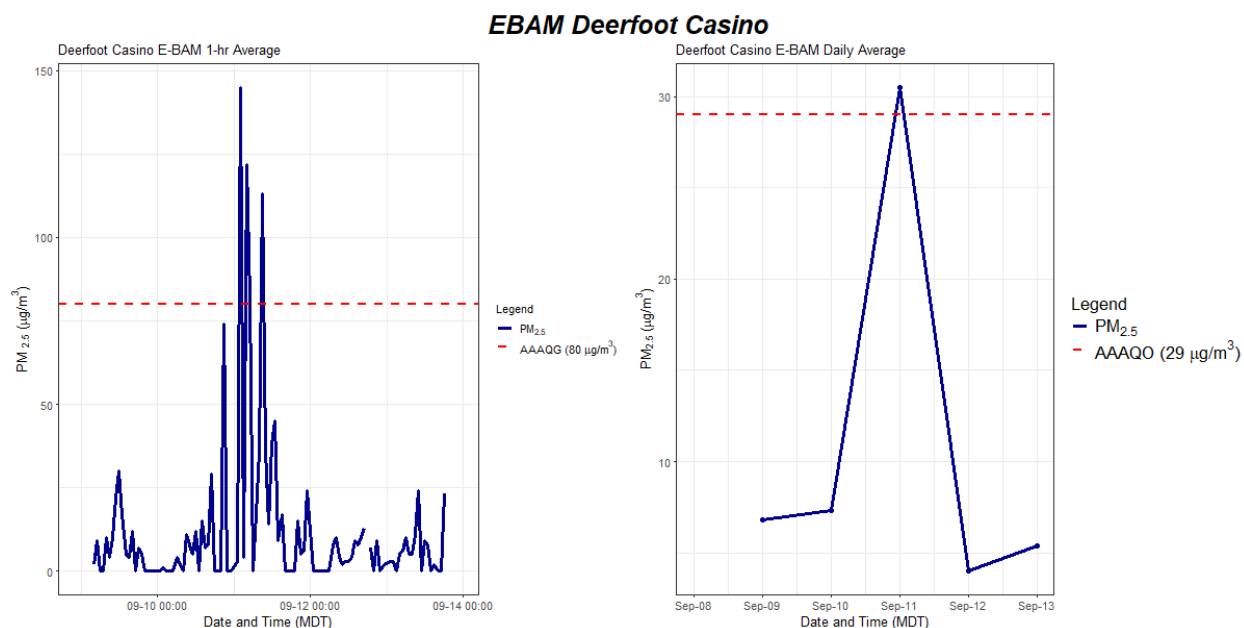


Results from the Beta Attenuation Mass Monitoring (E-BAMs)

Timestamps are in Mountain Daylight Time (MDT). As per AAAQO/G reporting standards, the blue line represents the 1-hour average and red dashed line is AAAQO/G. The 1-hour AAAQGs for $PM_{2.5}$ = $80 \mu g/m^3$, and 24-hour AAAGOs for $PM_{2.5}$ = $29 \mu g/m^3$.

An E-BAM was deployed at the Deerfoot Casino location on September 9, 2026, and provides continuous $PM_{2.5}$ monitoring. A second E-BAM was deployed at the ATCO gas location on September 10, 2026.

Timestamps are in Mountain Daylight Time (MDT).



EBAM ATCO Gas

