

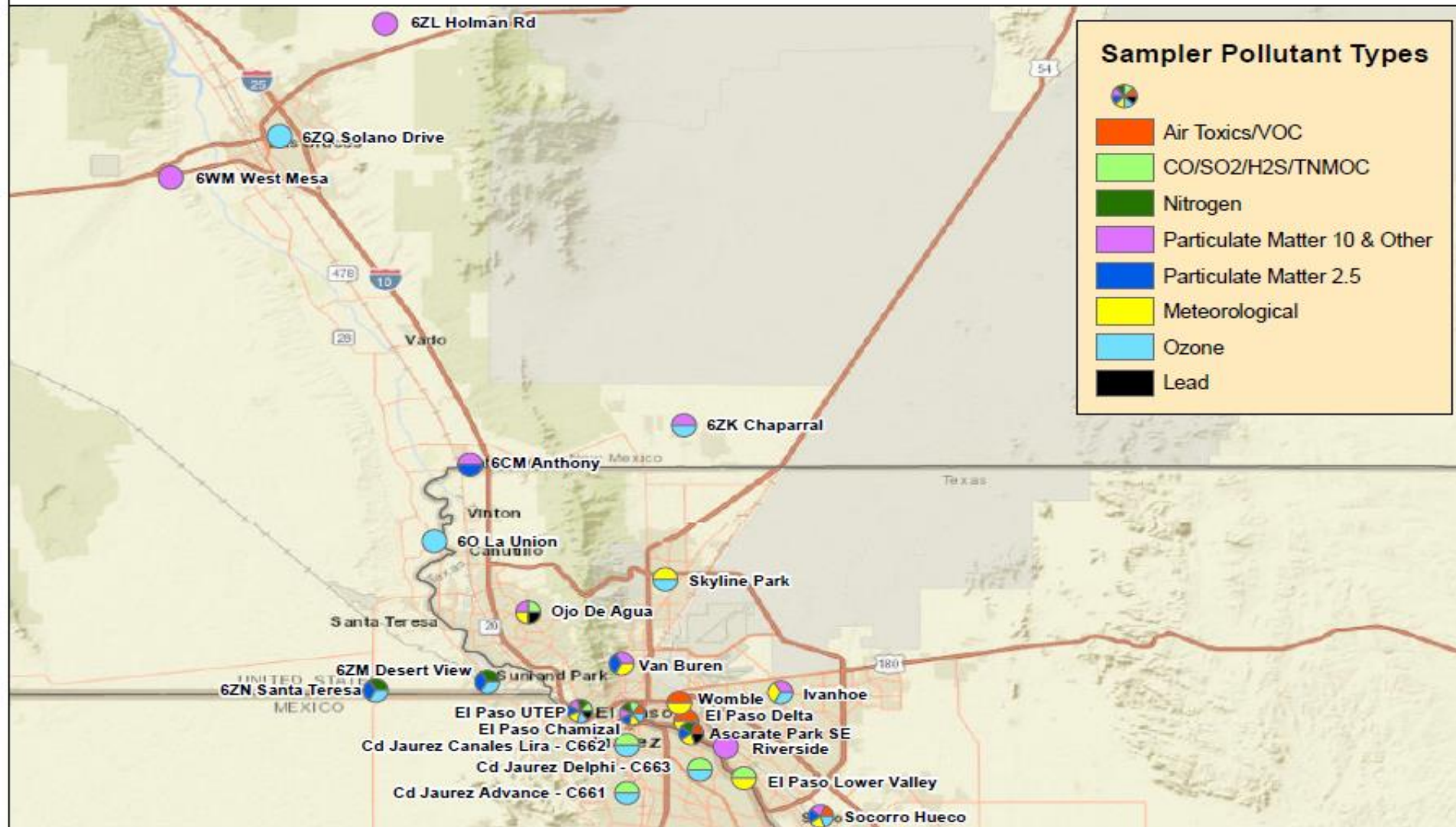
Report on Air Quality in the Paso del Norte

for the Joint Advisory Committee
on the Improvement of Air Quality in the Paso del Norte Region



November 14, 2019
Carlos Rincon
US EPA Region 6

El Paso Area Samplers

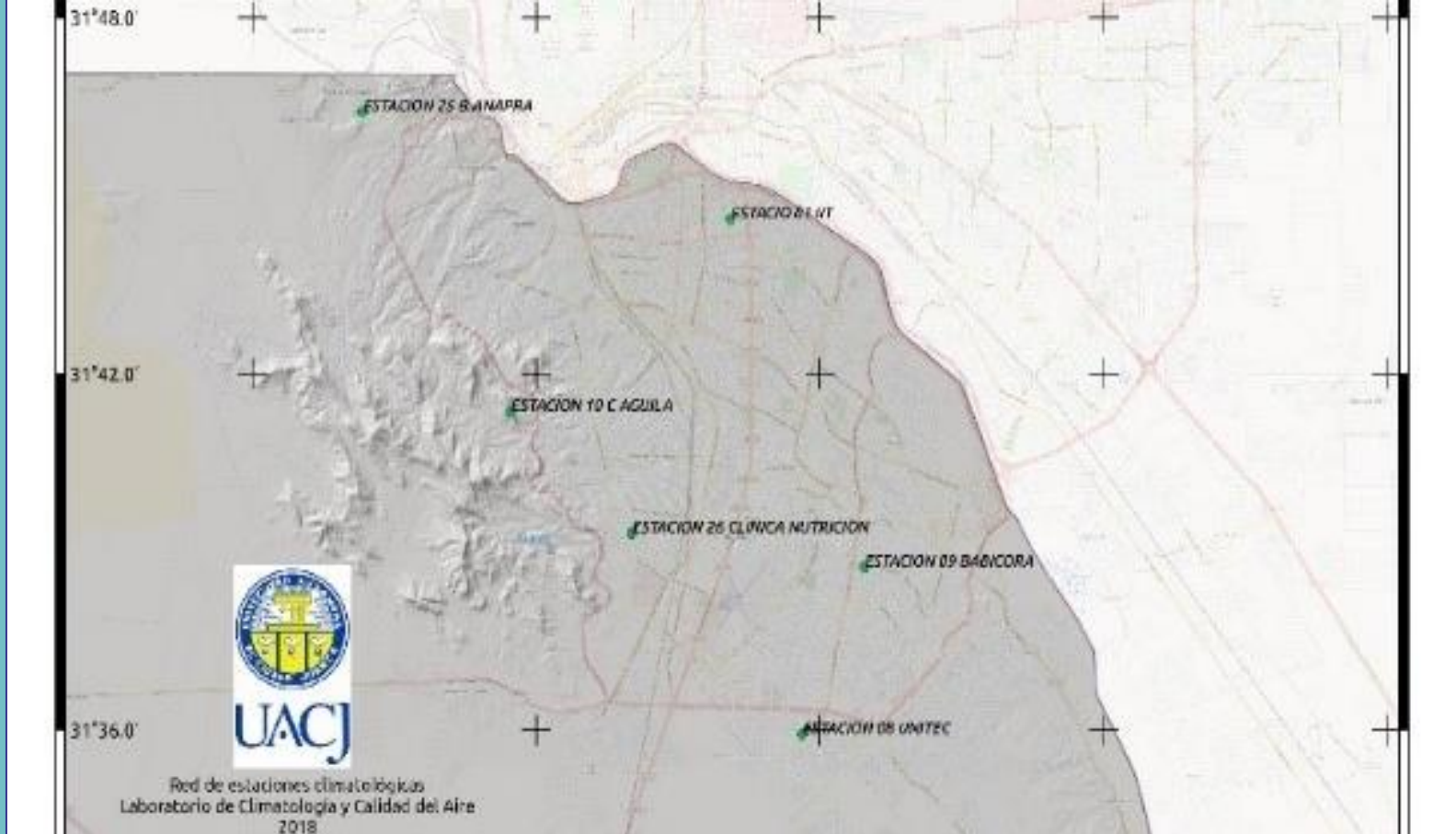


This map was generated by the Office of Compliance and Enforcement, Monitoring Division of the Texas Commission on Environmental Quality and is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location as of Wednesday, December 12, 2018 for property boundaries. For information concerning this map, contact the Monitoring Division at (512) 239-1716.



Texas Commission on Environmental Quality
Office of Compliance and Enforcement
Monitoring Division
PO Box 13087
Austin, Texas 78711-3087

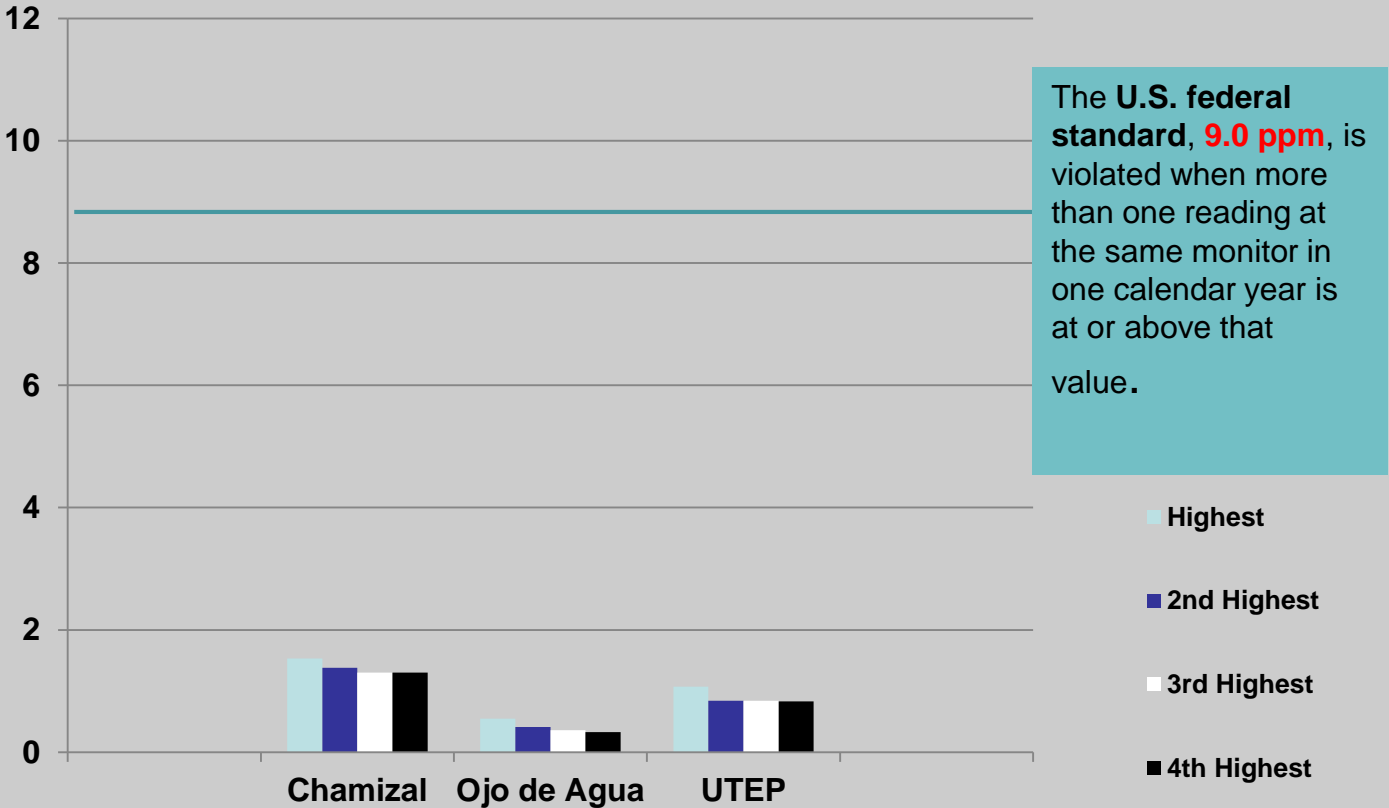
Wednesday, December 12, 2018



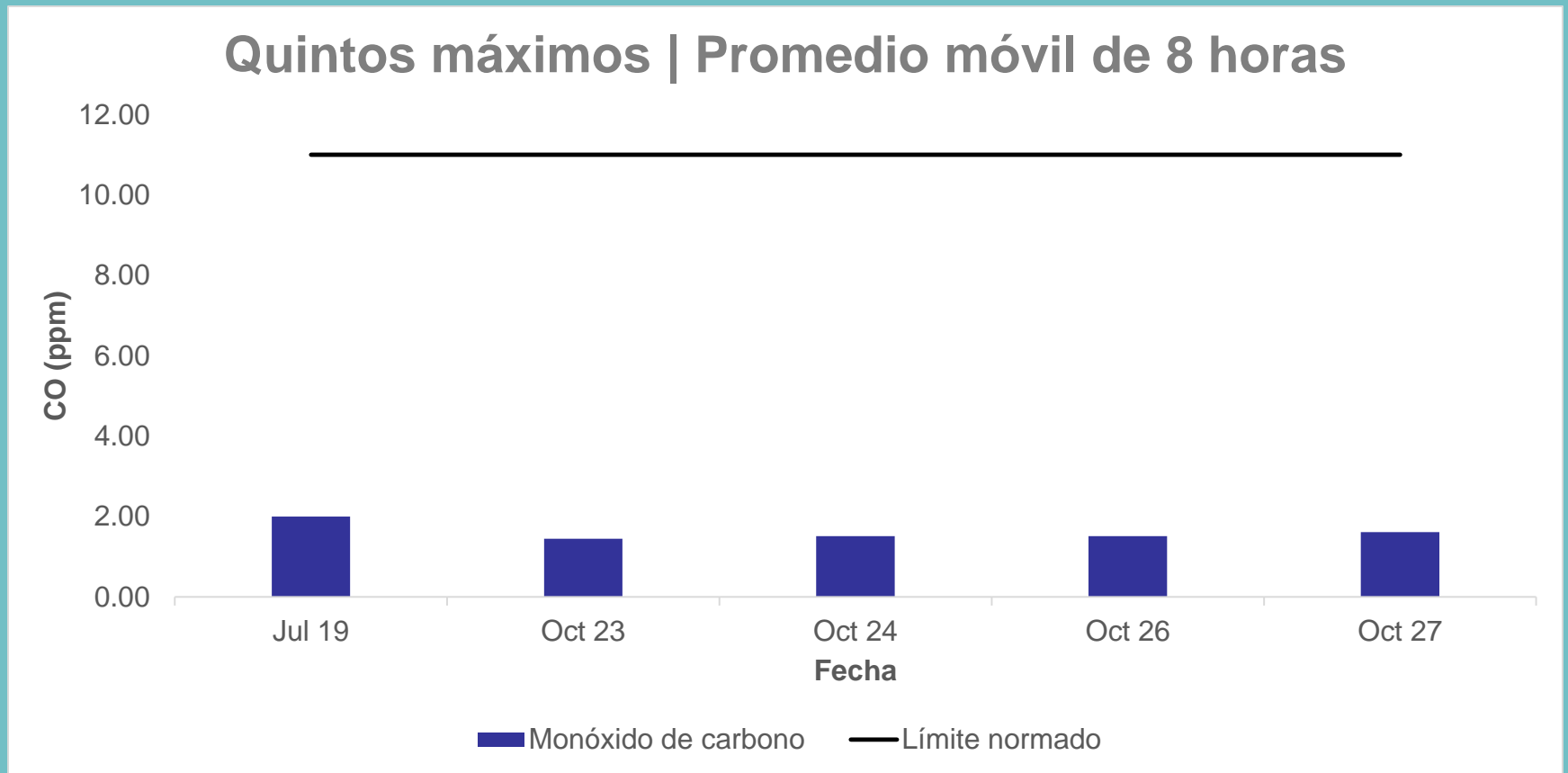
Estación 01 IIT:
Meteorología
Ozono
Monóxido de Carbono
Dióxido de Azufre
Dióxido de nitrógeno
Material Particulado (PM10 y PM2.5)

Carbon Monoxide

Carbon Monoxide 8-Hr. Averages Four Highest Values (in ppm) at Each Monitor in El Paso May 1 – October 31, 2019



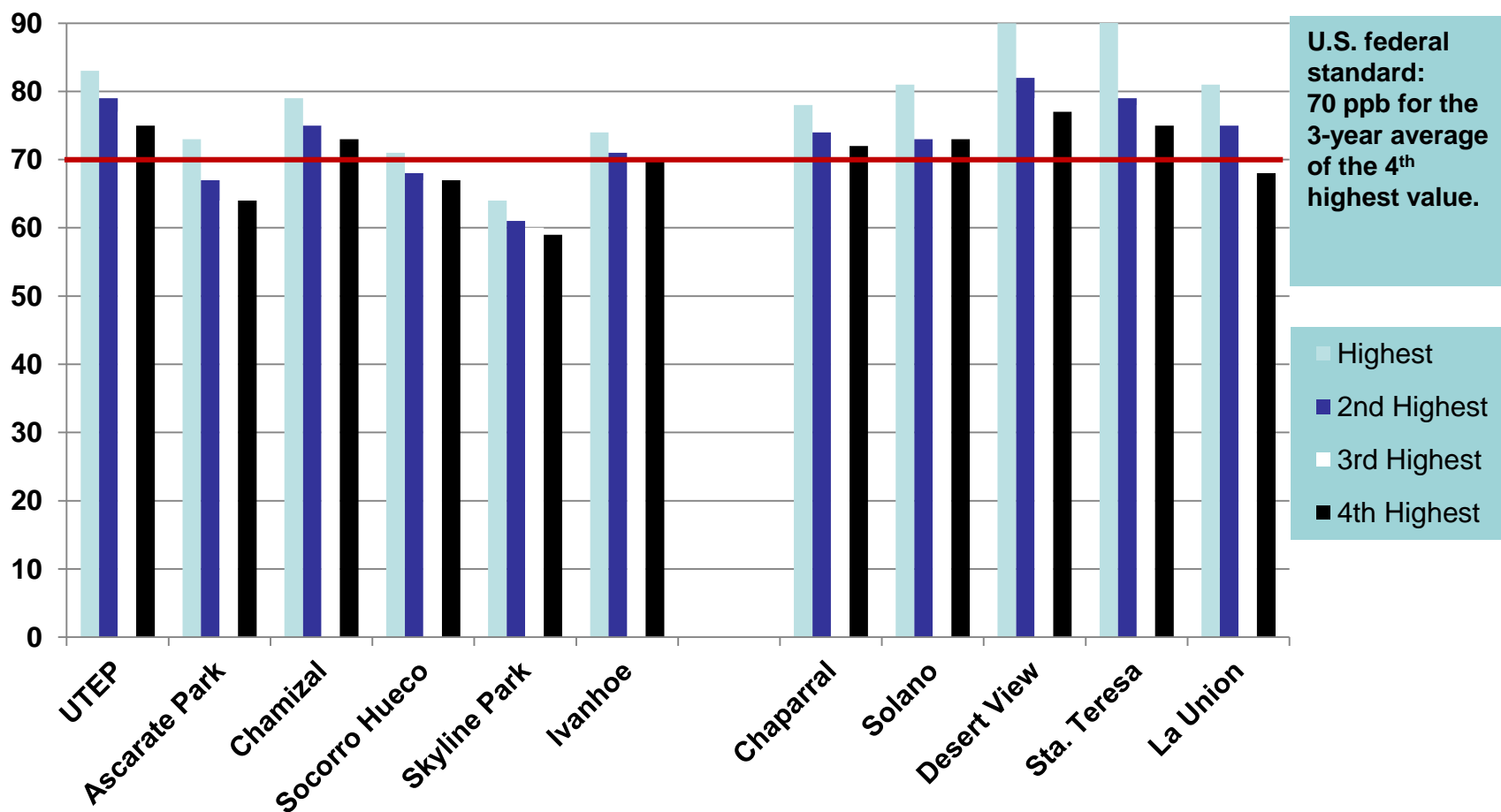
Monóxido de carbono | Promedios móviles de 8 horas en Ciudad Juárez | 5 valores máximos (Mayo – Octubre 2019)



El límite máximo permisible en México para CO es de 11 ppm en promedios móviles de 8 horas

Ozone

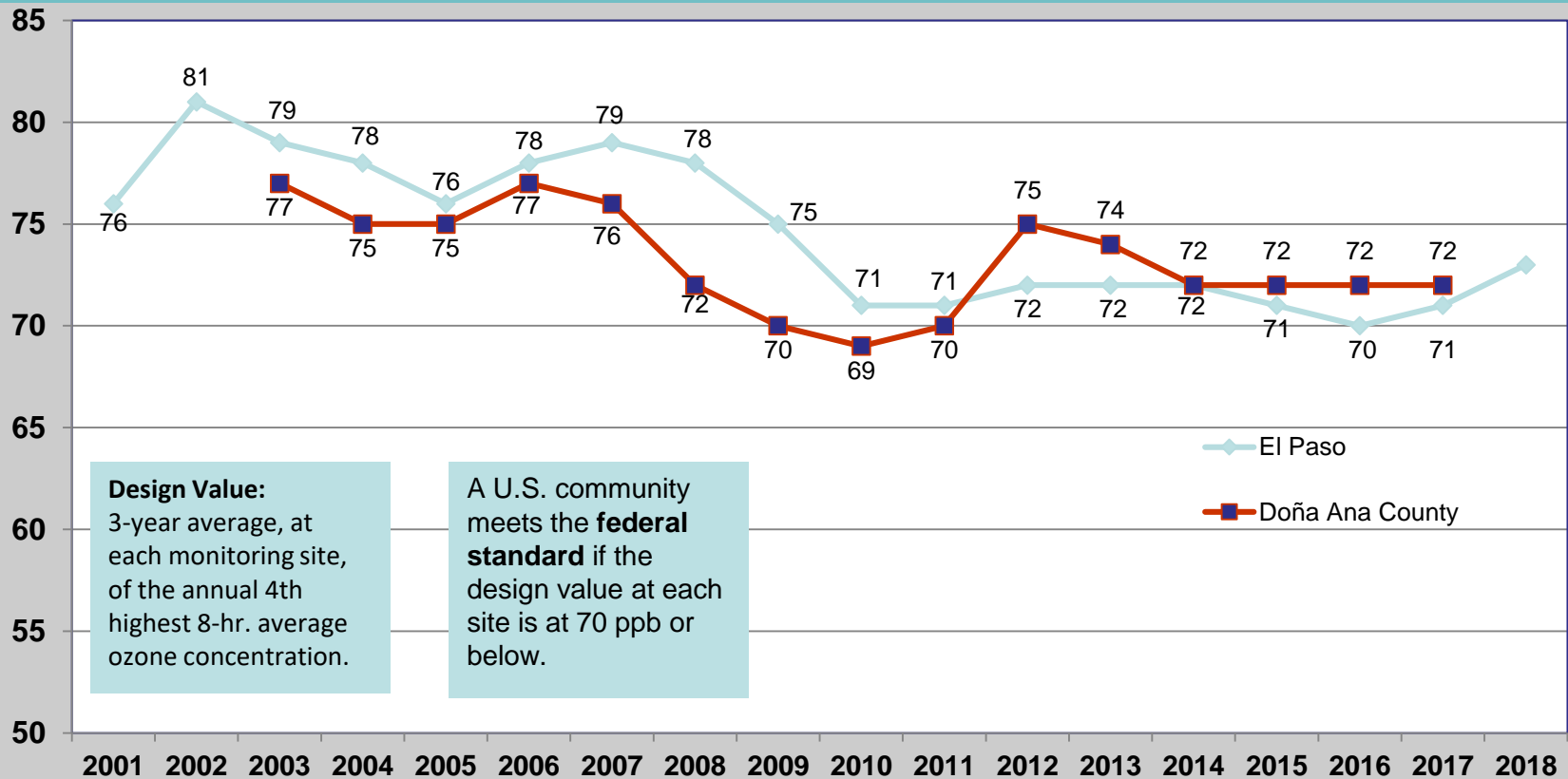
Ozone 8-Hr. Averages (in ppb) Four Highest Values at Monitors in El Paso and Doña Ana County. (May 1 - October 31, 2019)



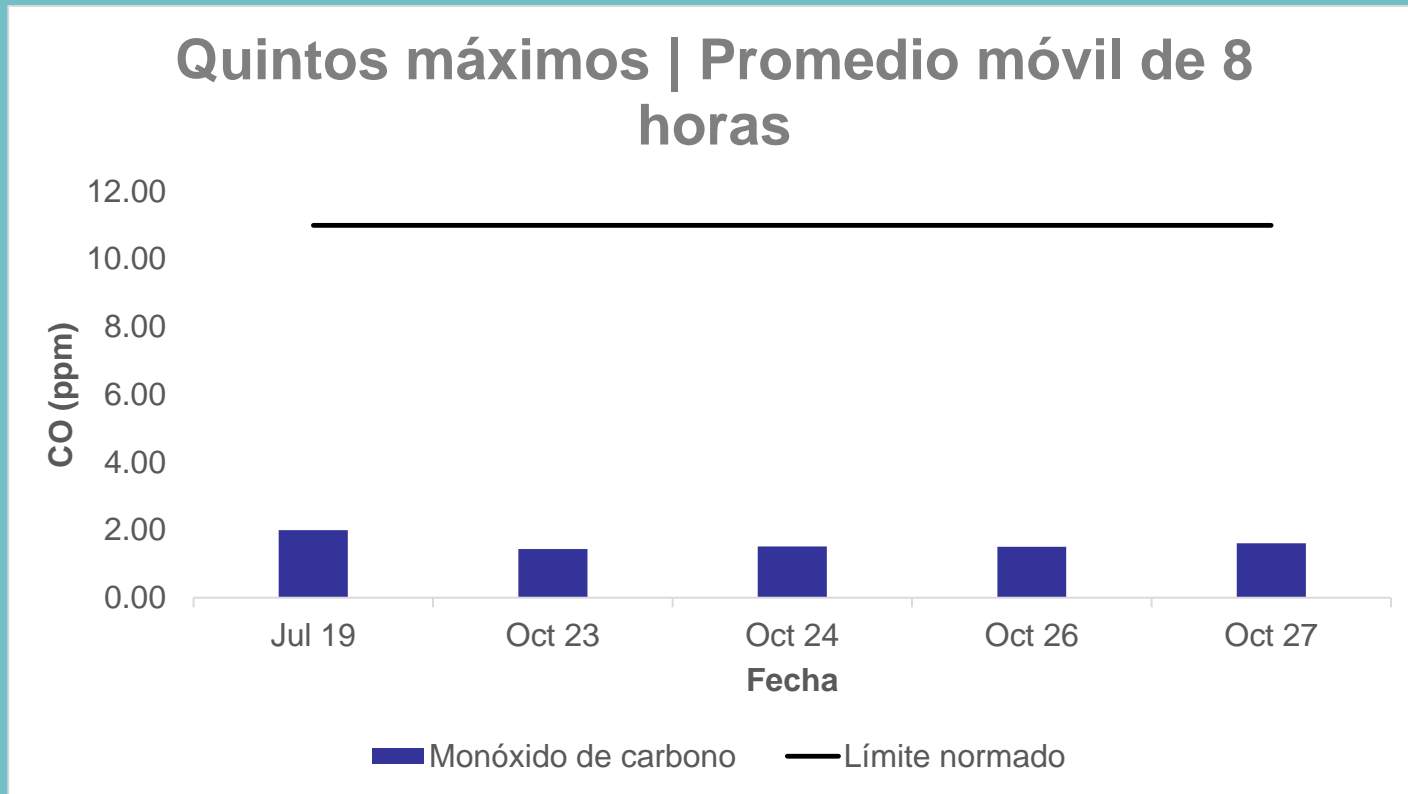
Ozone 8-Hr. Design Values

El Paso and Doña Ana County

(highest value of all sites in each area, 2001 – 2018)



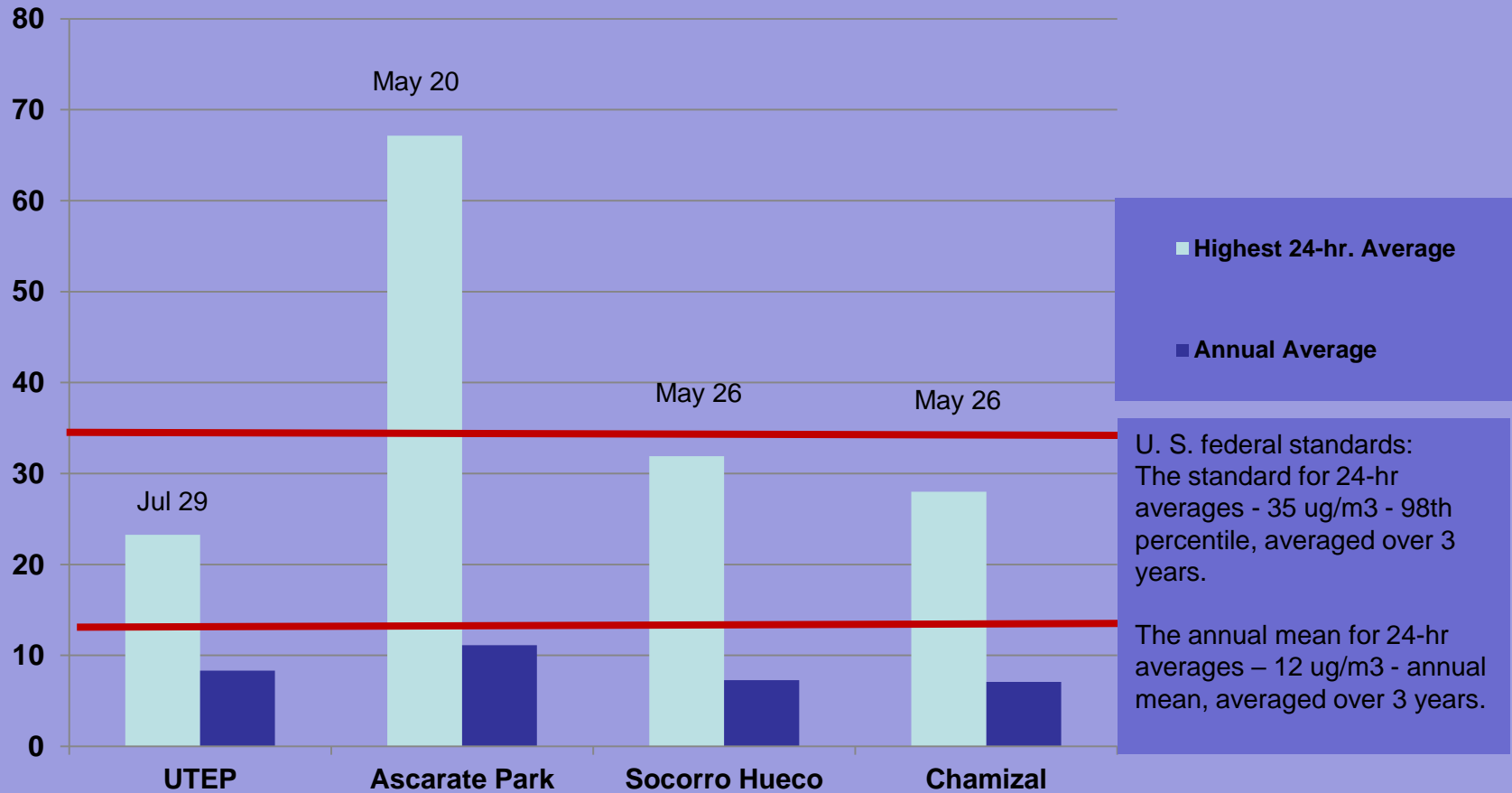
Ozono
Promedio móvil de 8 horas en Ciudad Juárez
5 valores máximos
(Mayo - octubre 2019)



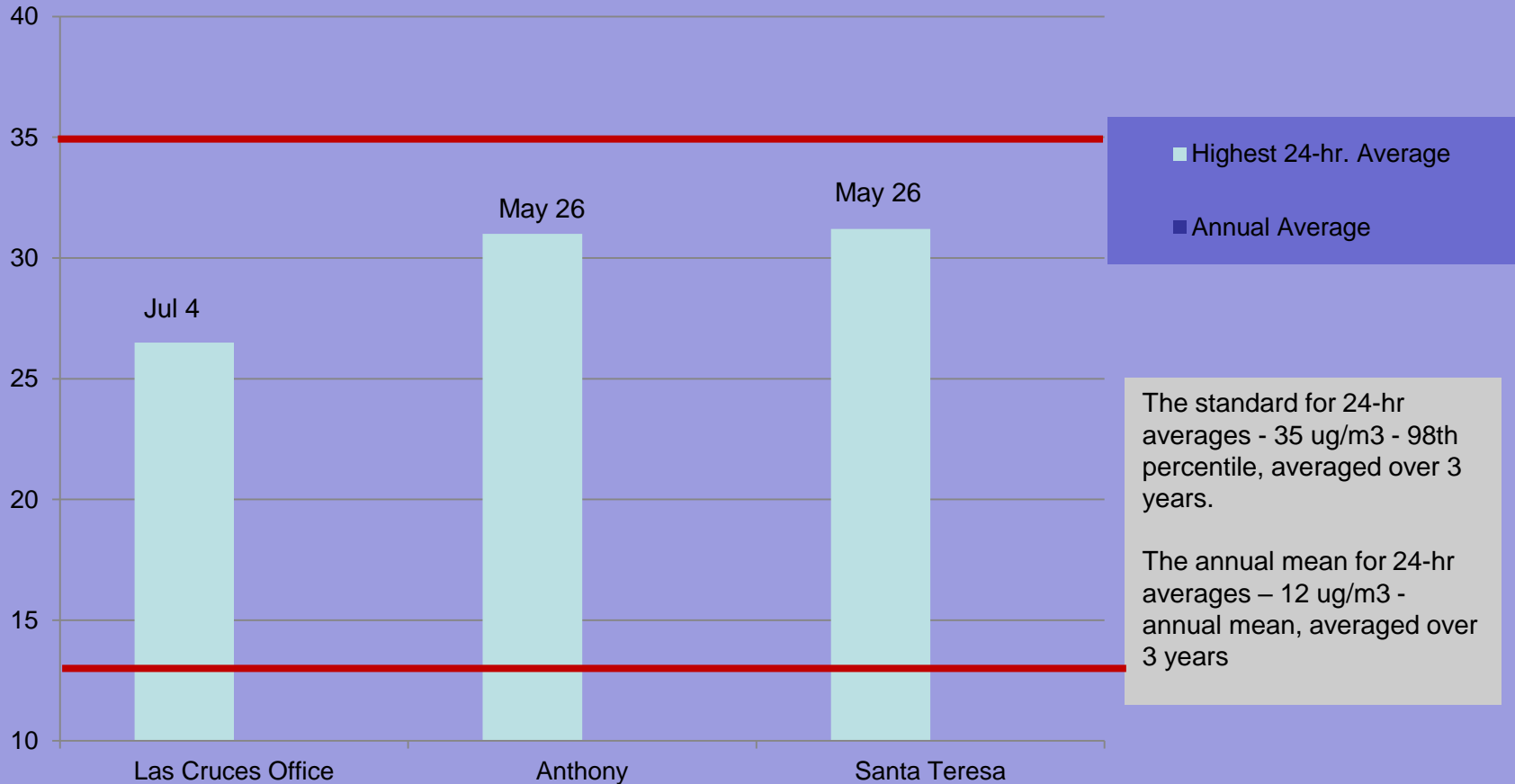
El límite máximo O_3 permisible en México es de 0.07 ppm
($148 \mu g m^{-3}$) en promedios móviles de 8 horas

Particulate Matter (PM)

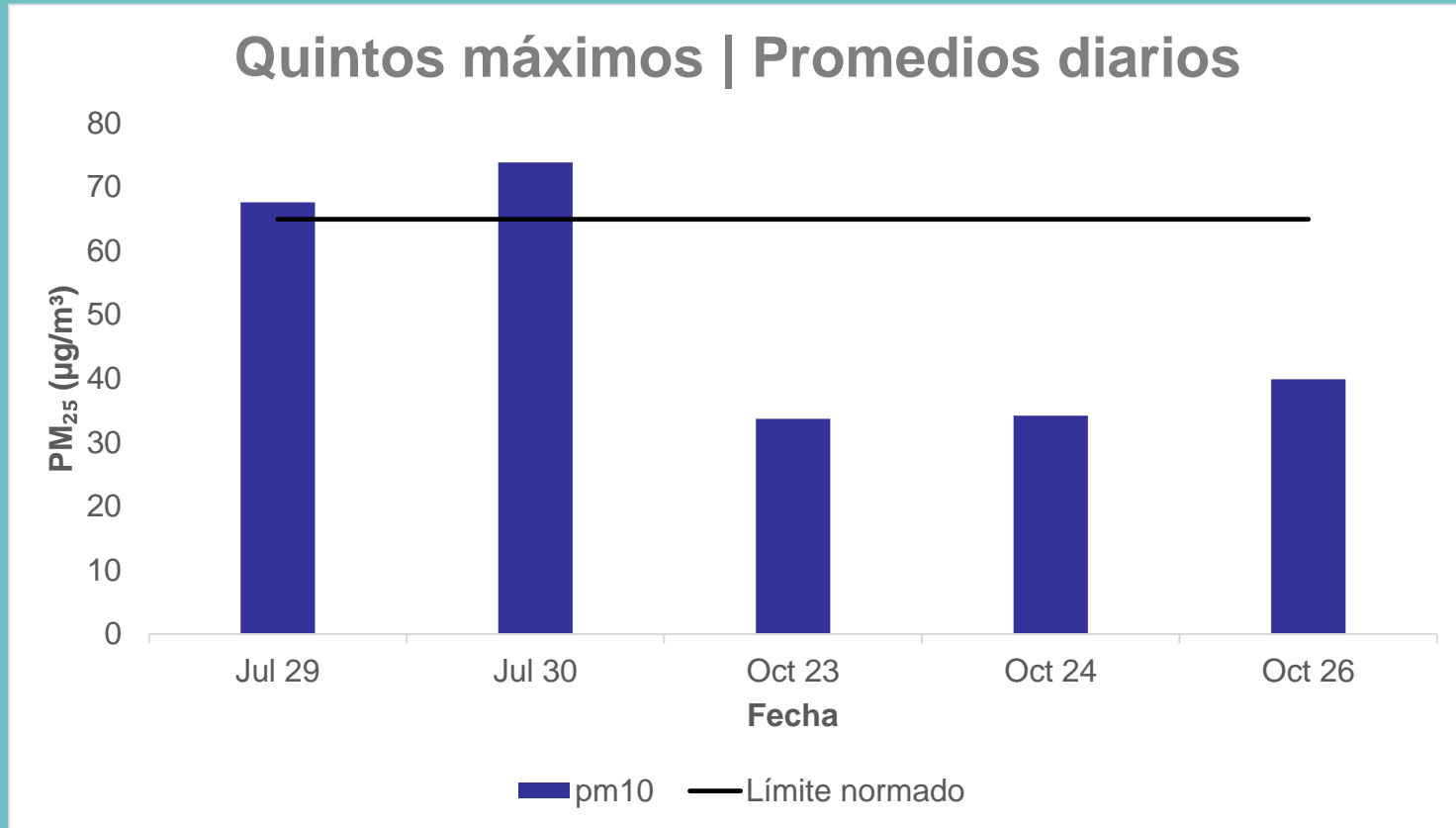
PM_{2.5}
Highest 24-Hr. Average and Annual Average
Four Monitors in El Paso (in $\mu\text{g}/\text{m}^3$)
May 1 – October 31, 2019



PM_{2.5}
Highest 24-Hr. Average and Annual Average (µg/m³)
Doña Ana County
May 1 – October 31, 2019



PM_{2.5}
Promedio móvil de 24 horas en Ciudad Juárez
5 valores máximos
(Mayo-octubre 2019)



El límite máximo PM_{2.5} permisible en México para es de 65 µg m⁻³ en promedios diarios

PM_{2.5}
Compliance with U.S. Federal Standards
El Paso and Doña Ana Counties

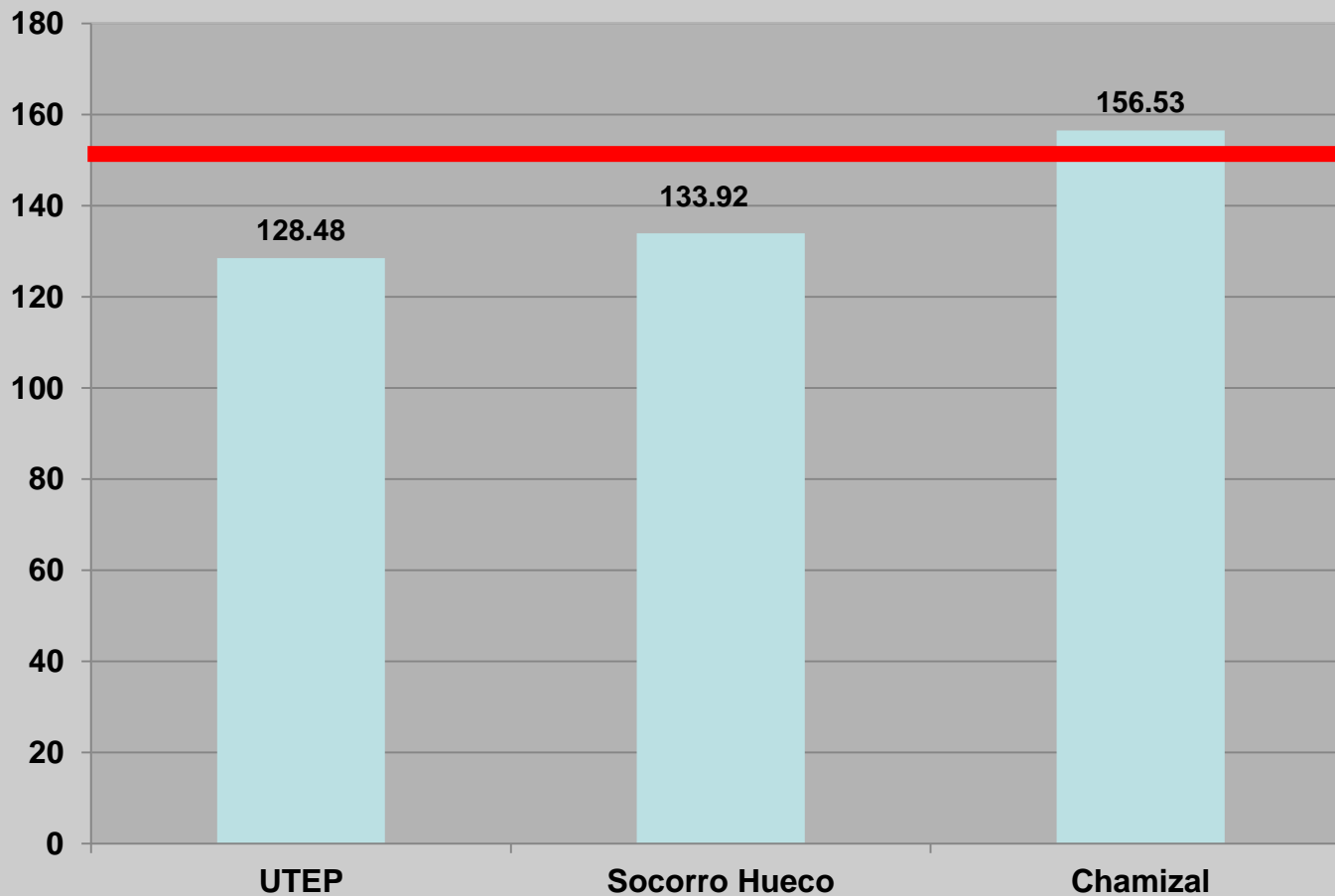
Annual Design Value

U.S. Standard	12 $\mu\text{g}/\text{m}^3$
2017 Design Value for Chamizal	8.9 $\mu\text{g}/\text{m}^3$
2017 Design Value for Anthony	8.3 $\mu\text{g}/\text{m}^3$

24-Hour Design Value

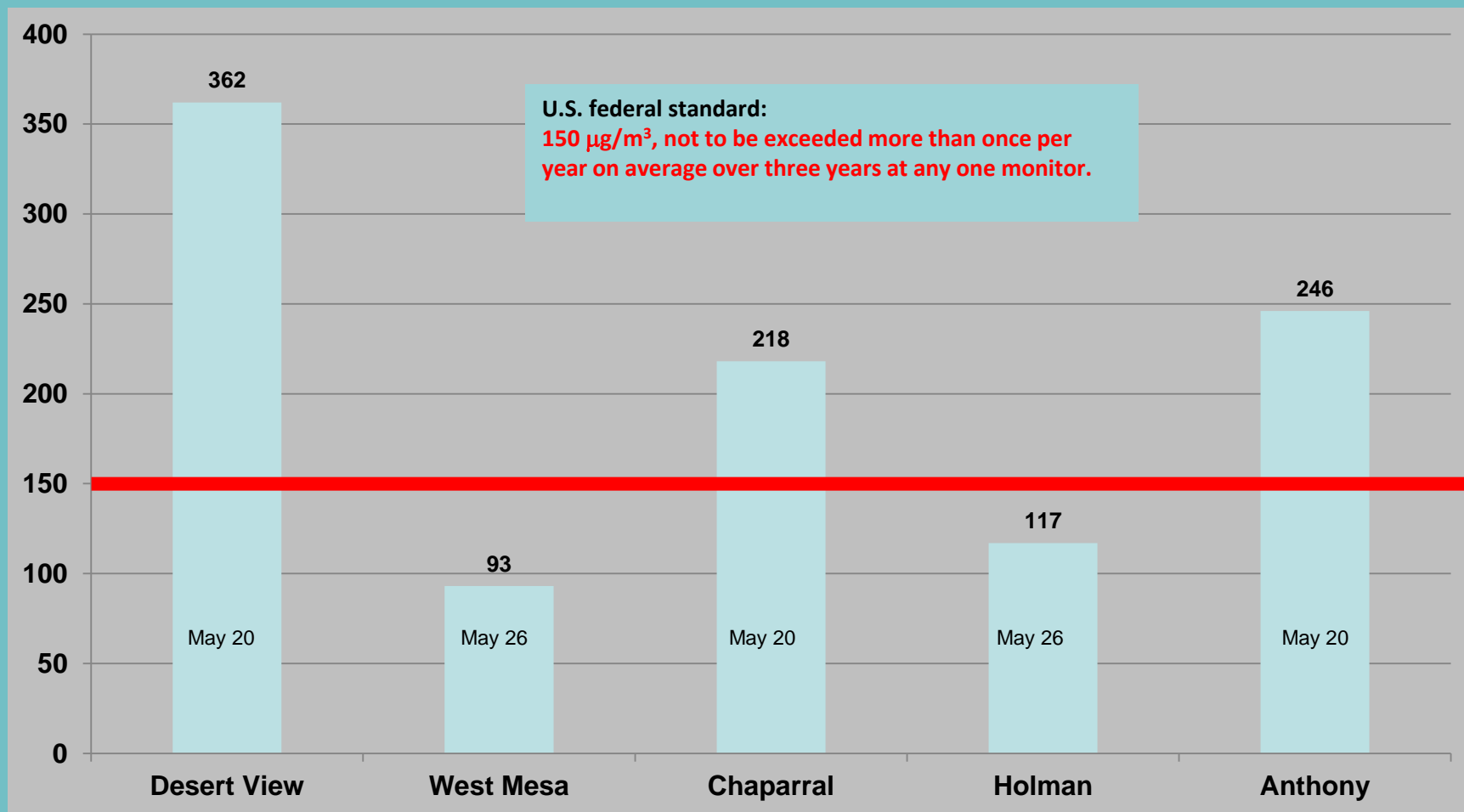
U.S. Standard	35 $\mu\text{g}/\text{m}^3$
2017 Design Value for Chamizal	23 $\mu\text{g}/\text{m}^3$
2017 Design Value for Anthony	27 $\mu\text{g}/\text{m}^3$

PM₁₀
Highest 24-Hour Averages (in $\mu\text{g}/\text{m}^3$)
Three Monitors in El Paso
May 1 – October 31, 2019

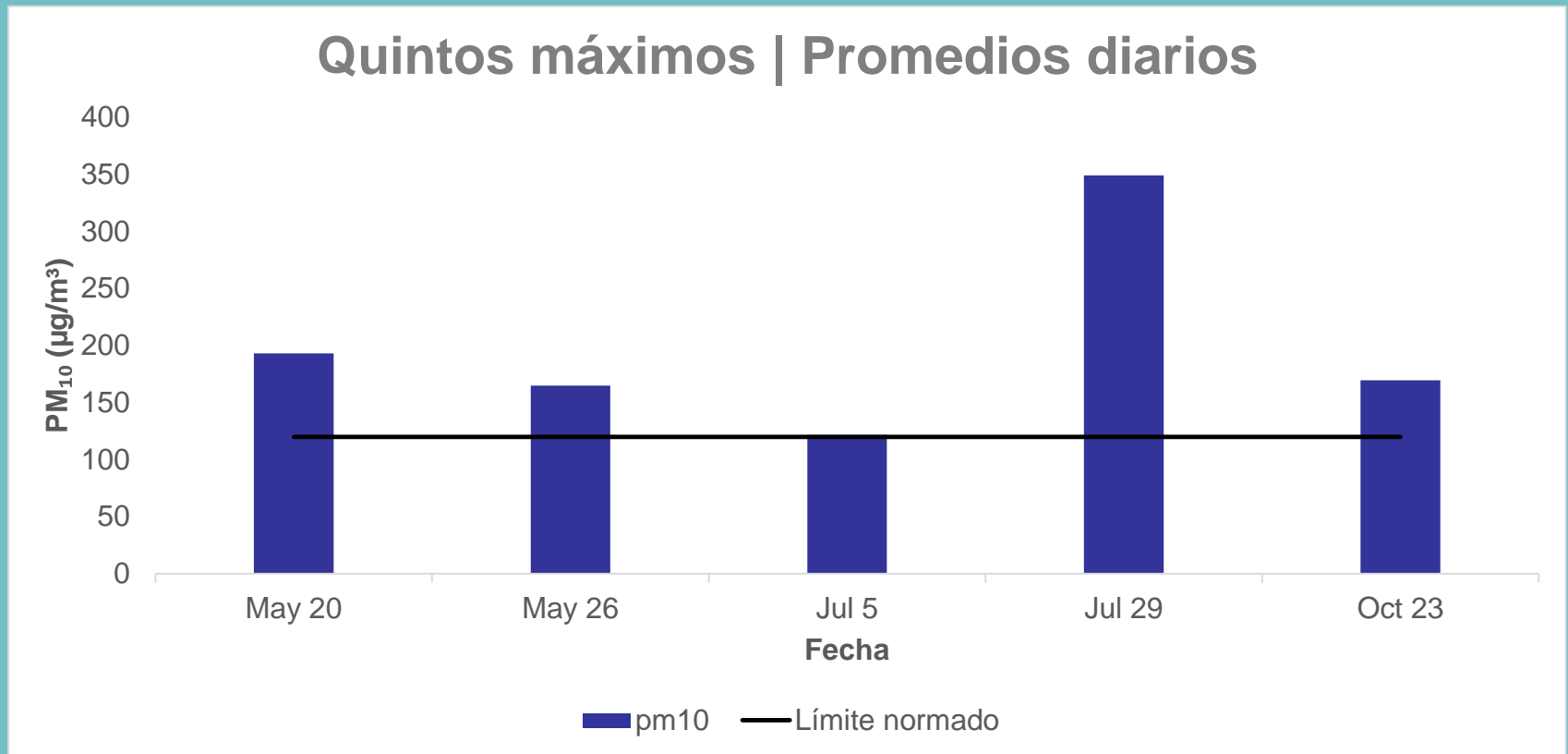


U.S. federal standard:
150 $\mu\text{g}/\text{m}^3$, not to be exceeded more than once per year on average over three years at any one monitor.

PM10
Highest 24-Hour Averages (in $\mu\text{g}/\text{m}^3$)
Five Monitors in New Mexico
May 1 - October 31, 2019



PM₁₀
Promedios de 24 horas en Ciudad Juárez
5 valores máximos
(mayo - octubre 2019)



El límite máximo PM₁₀ permisible en México para es de 120 µg m⁻³ en promedios diarios

PM₁₀
Compliance with U.S. Federal Standard
for 24-Hour Design Value
El Paso and Doña Ana Counties
2016 - 2018

U.S. Standard

150 $\mu\text{g}/\text{m}^3$

Violation at any one monitor:

- **If the average annual # of estimated exceedances over three years is >1**

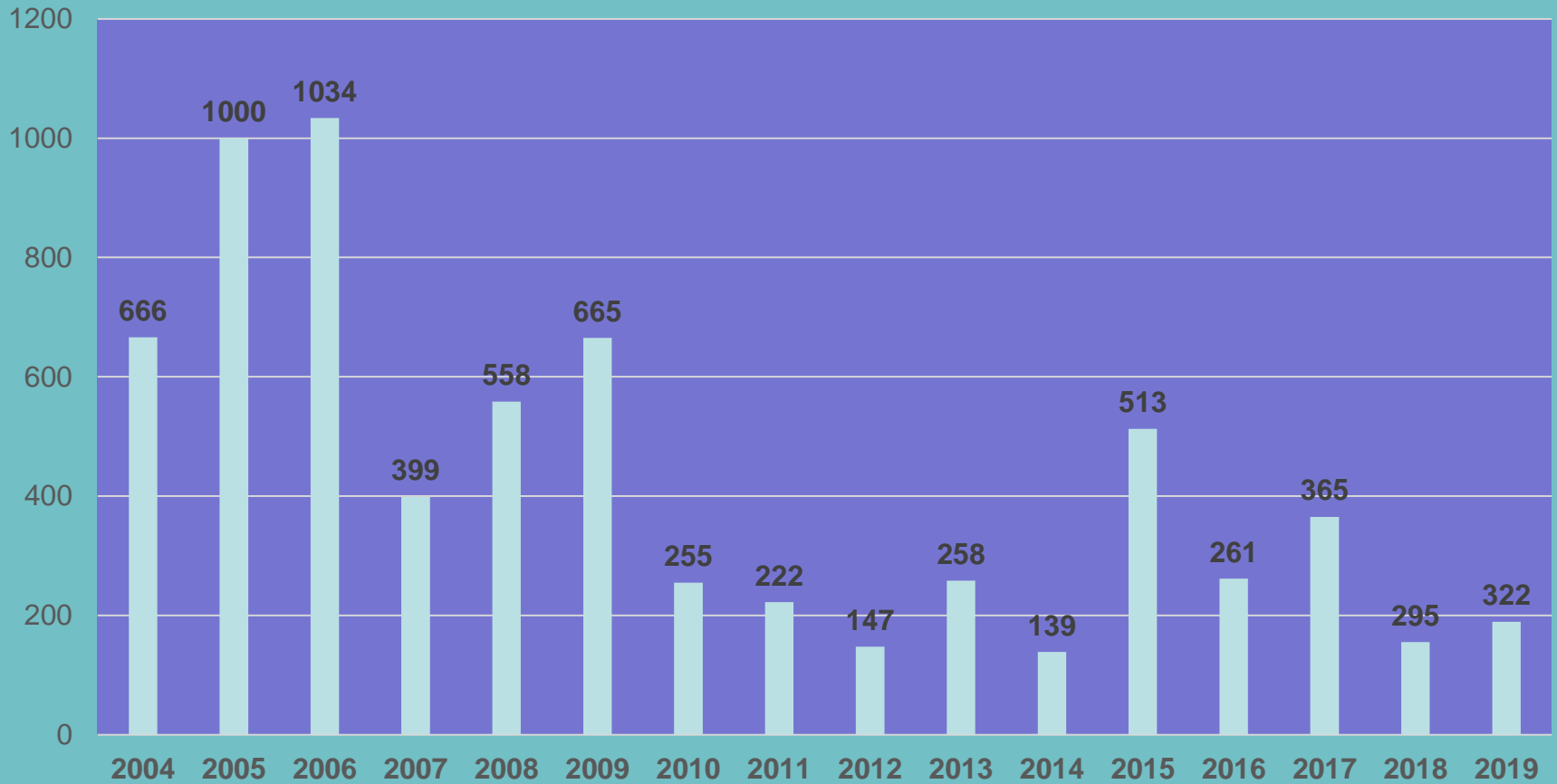
Socorro Hueco	2018	0	<u>estimated</u> exceedances
	2017	2	"
	2016	0	"
Desert View	2018	5	<u>estimated</u> exceedances
	2017	8	"
	2016	8	"

Cumplimiento con los límites de exposición crónica Media aritmética anual en Ciudad Juárez

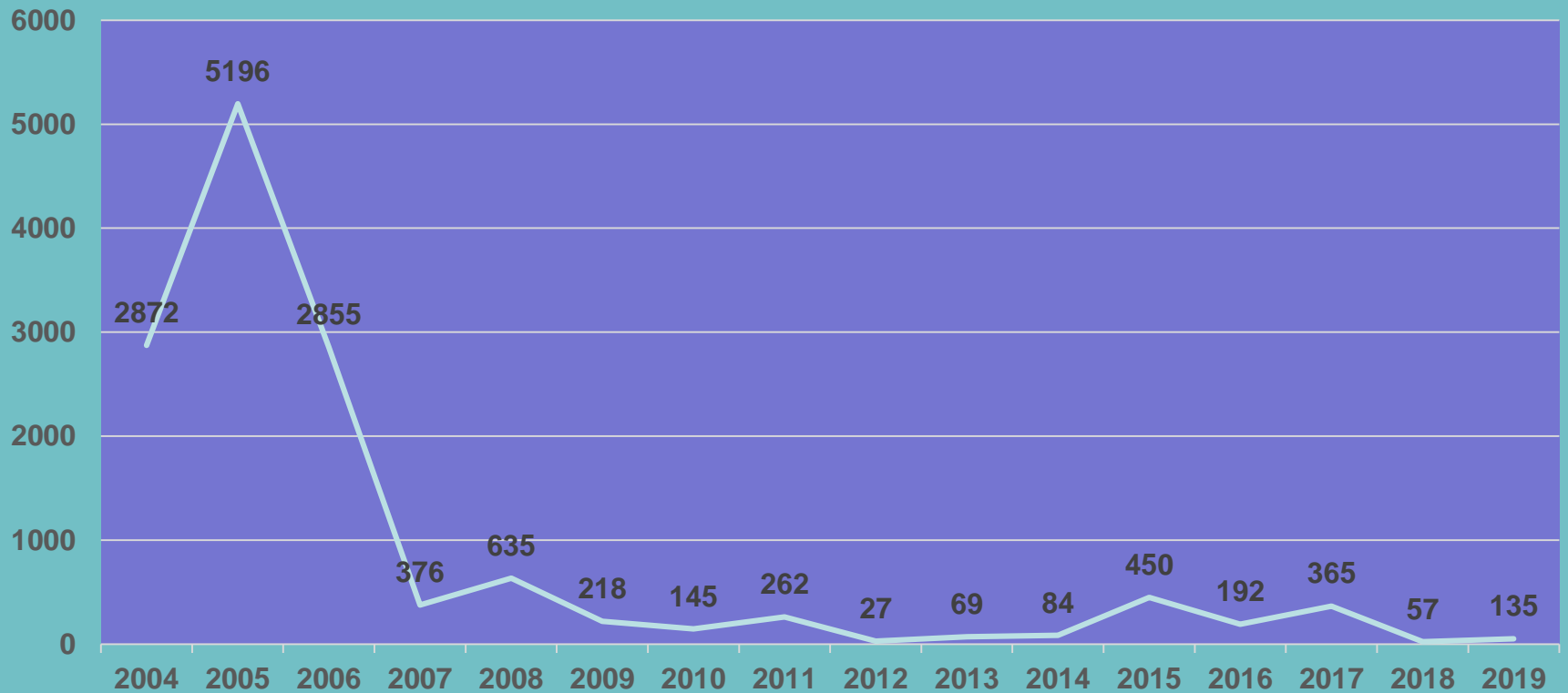
Parámetro	Límite de exposición crónica	Promedio anual (hasta el momento)
PM _{2.5}	15 $\mu\text{g m}^{-3}$	10.20 $\mu\text{g m}^{-3}$
PM ₁₀	50 $\mu\text{g m}^{-3}$	46.67 $\mu\text{g m}^{-3}$

Hydrogen Sulfide

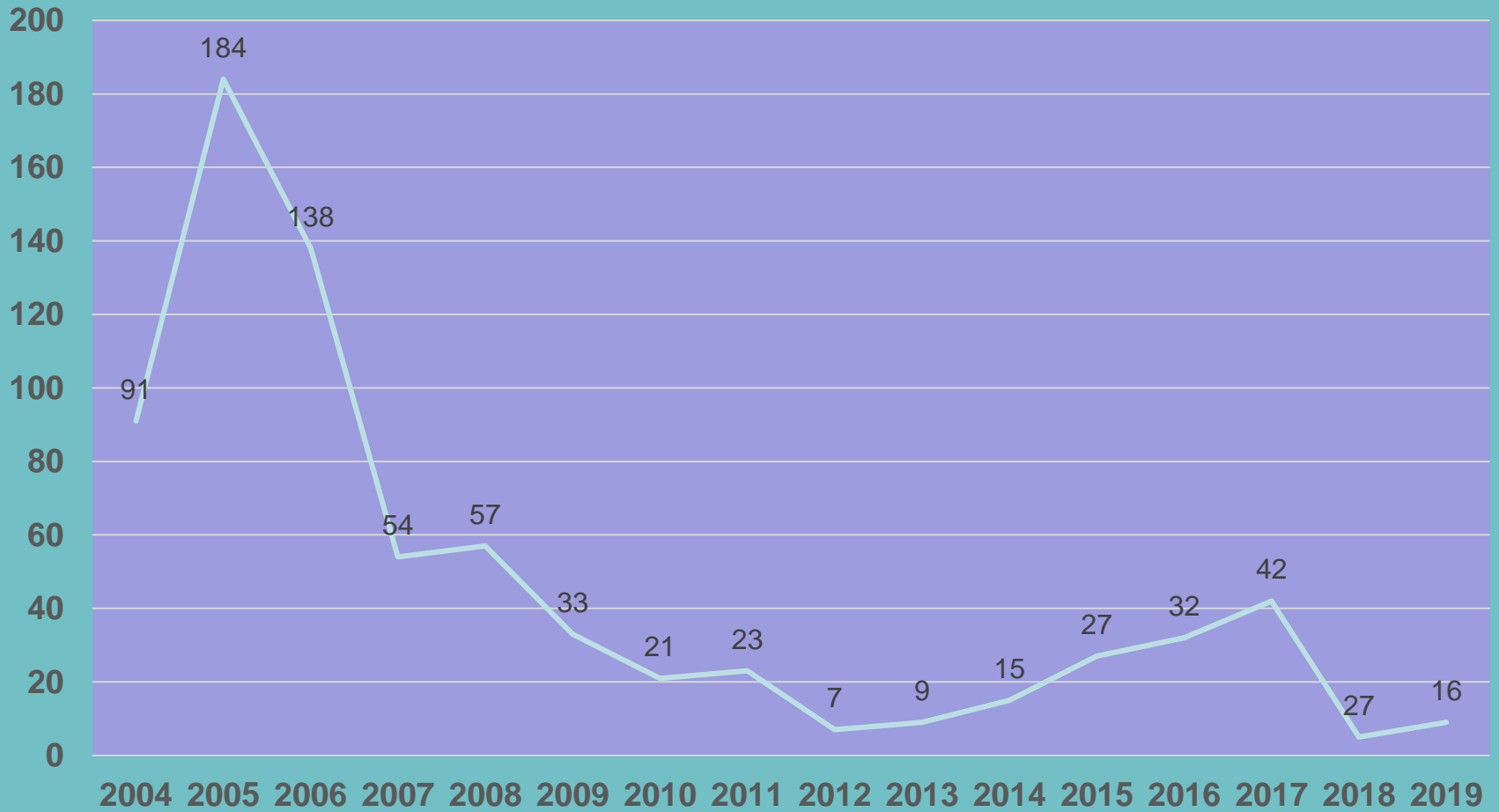
Hydrogen Sulfide – 30-Minute Averages Highest Value (in ppb) Each Year at “Lower Valley” Monitor (2004-2019)



Hydrogen Sulfide – 30-Minute Averages Number of Exceedances (in ppb) Each Year at “Lower Valley” Monitor (2004-2019)



Hydrogen Sulfide Number of Days with 30-Minute Exceedances at “Lower Valley” Monitor, 2004-2019



Any questions?

