

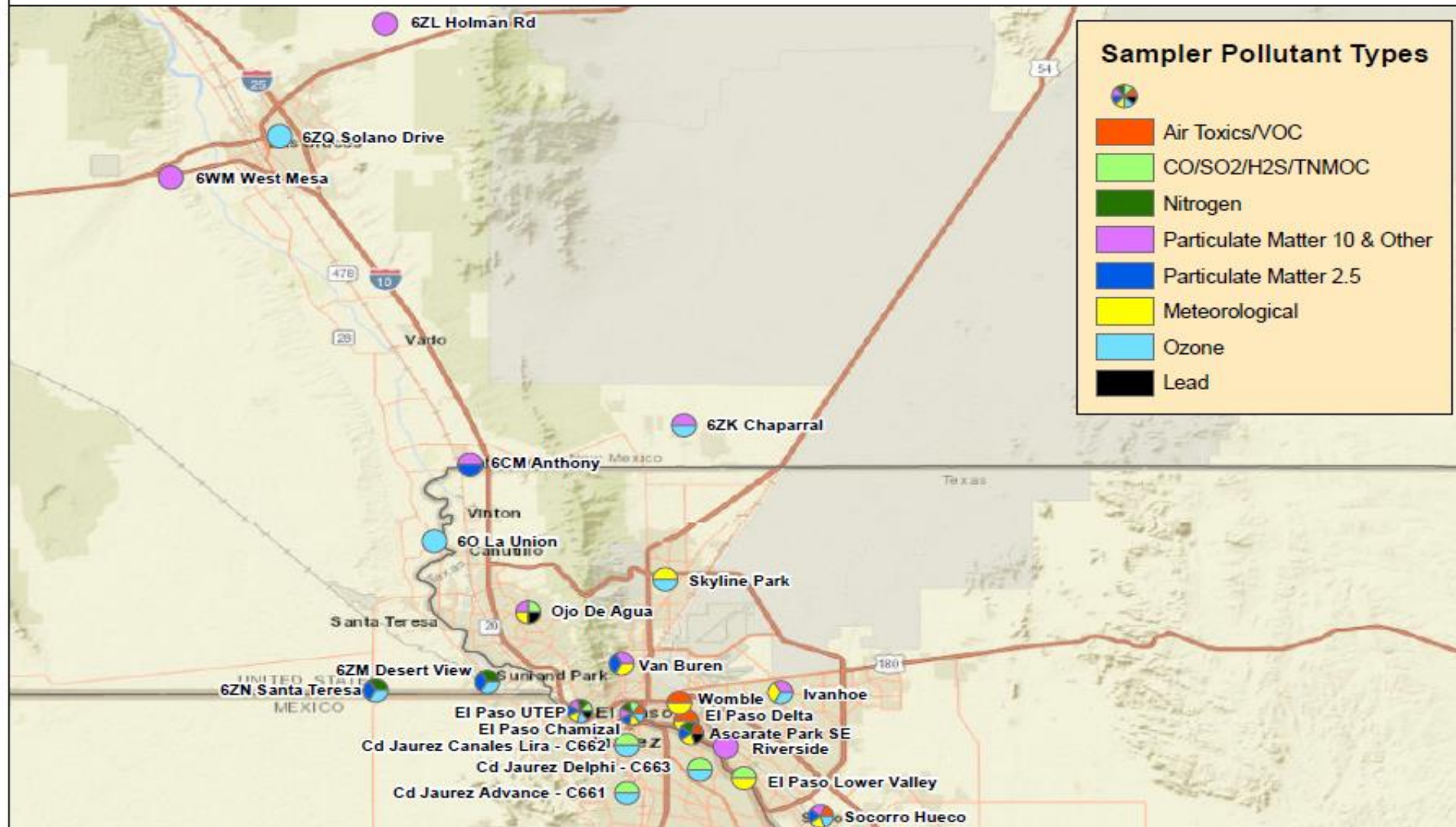
Report on Air Quality in the Paso del Norte

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



May 23, 2019
Carlos Rincon
US EPA Region 6

El Paso Area Samplers

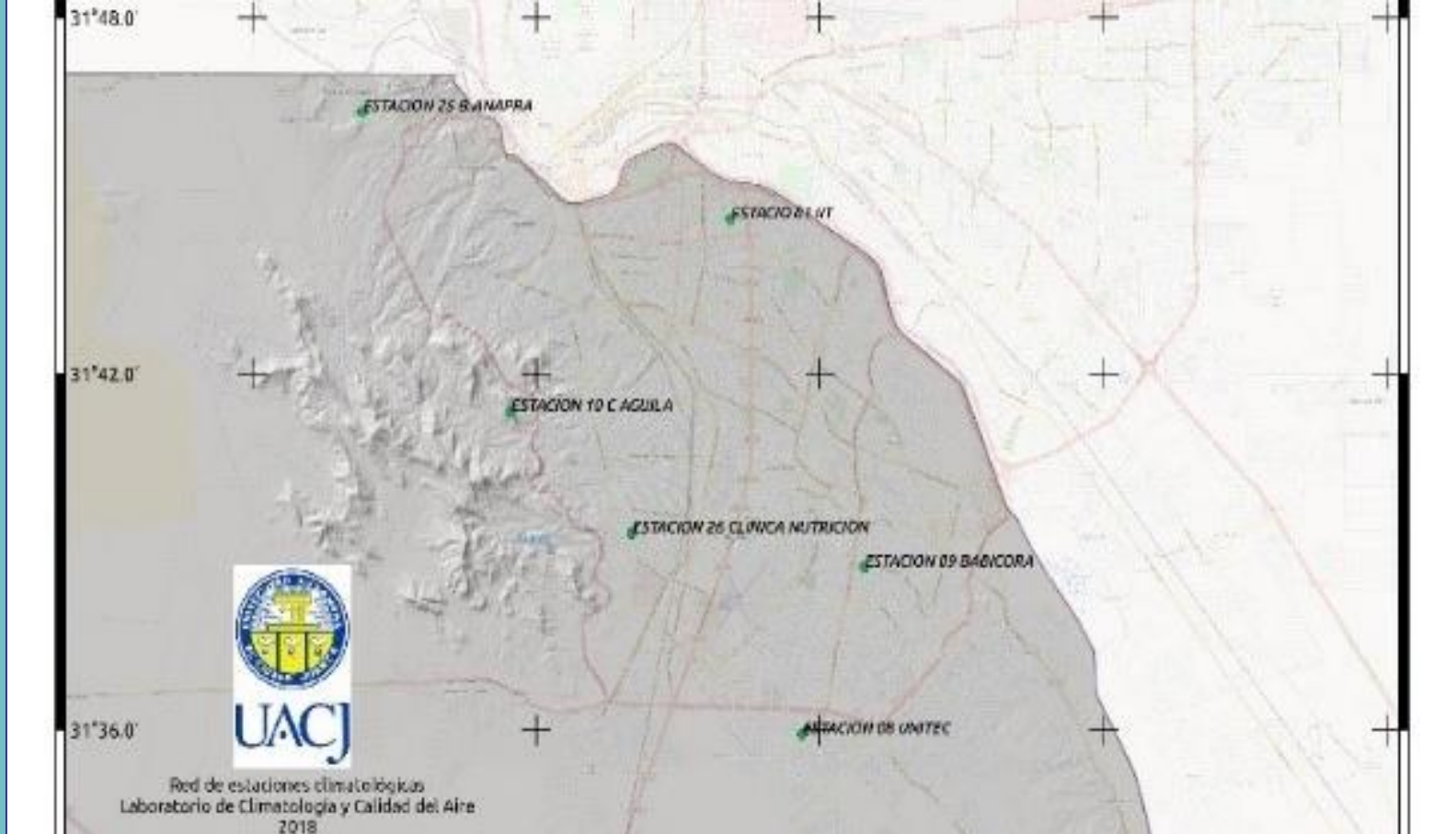


This map was generated by the Office of Compliance and Enforcement, Monitoring Division of the Texas Commission on Environmental Quality and is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground 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

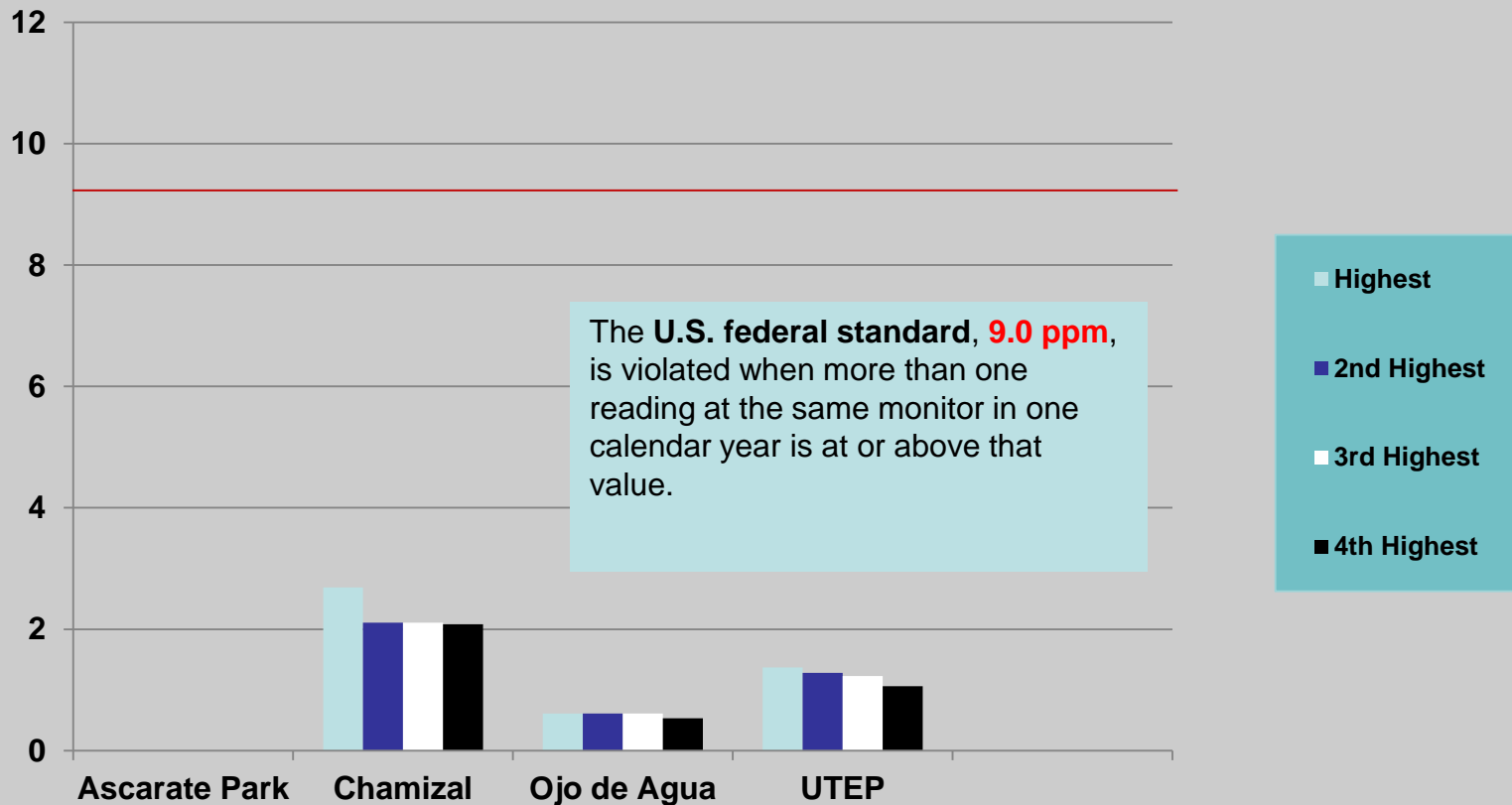
Wednesday, December 12, 2018



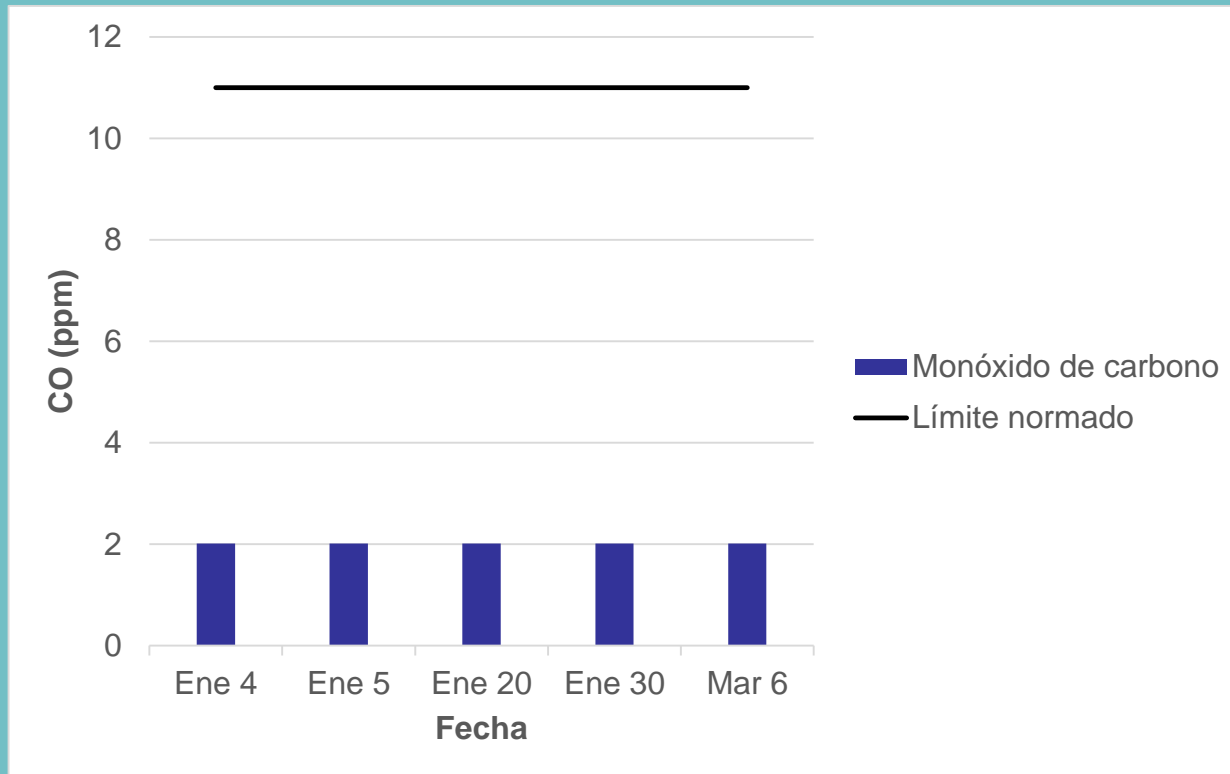
Estación 01 IIT:
Meteorología
Ozono
Monóxido de Carbono
Dióxido de Azufre
Dióxido de nitrógeno
Material Particulado (PM10 y PM2.5)

Carbon Monoxide

Carbon Monoxide 8-Hr. Averages Four Highest Values (in ppm) at Each Monitor in El Paso January – April 30, 2019



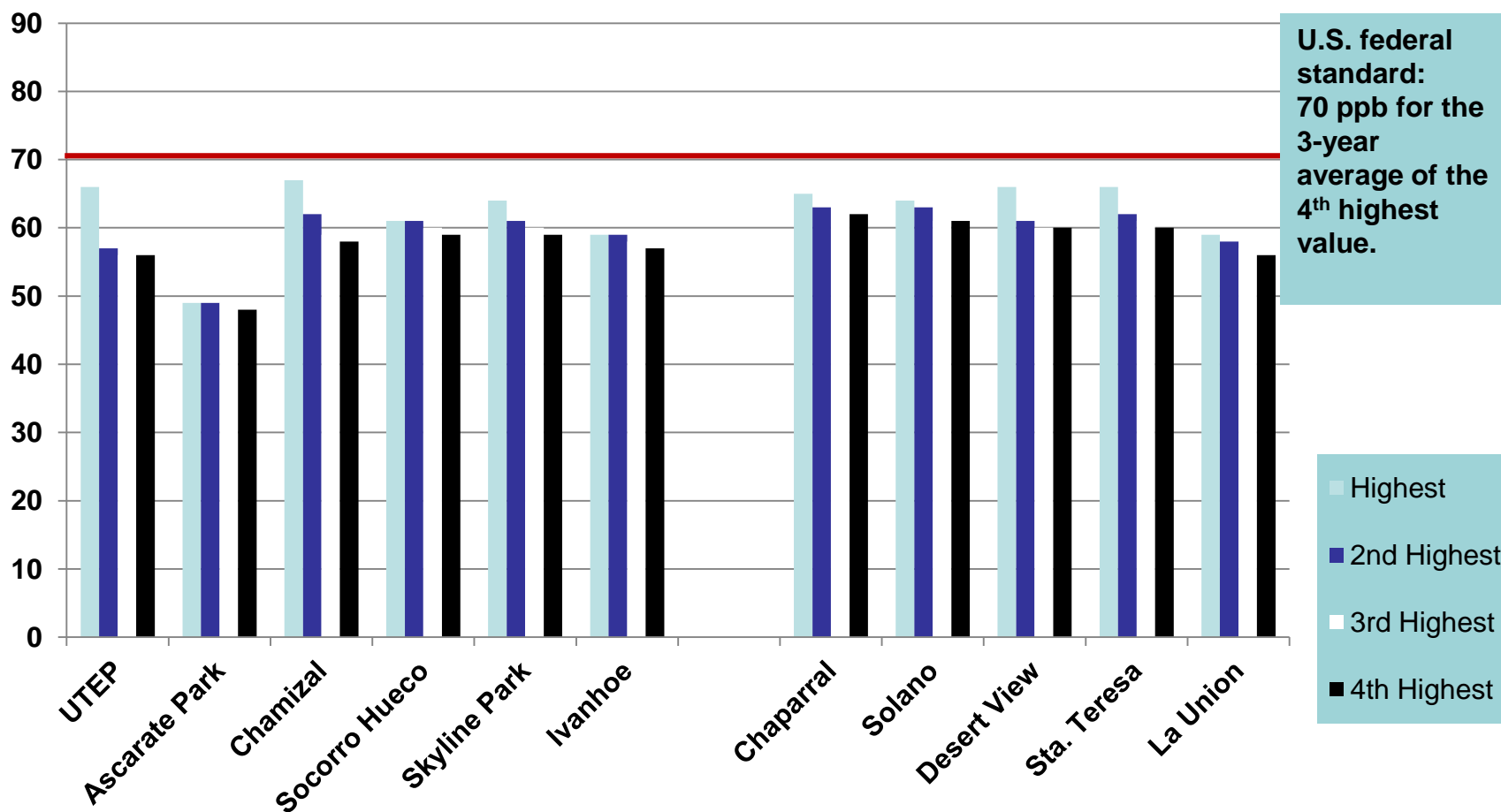
Monóxido de carbono | Promedios móviles de 8 horas en Ciudad Juárez | Quintos máximos (Enero-marzo 2019)



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

Ozone

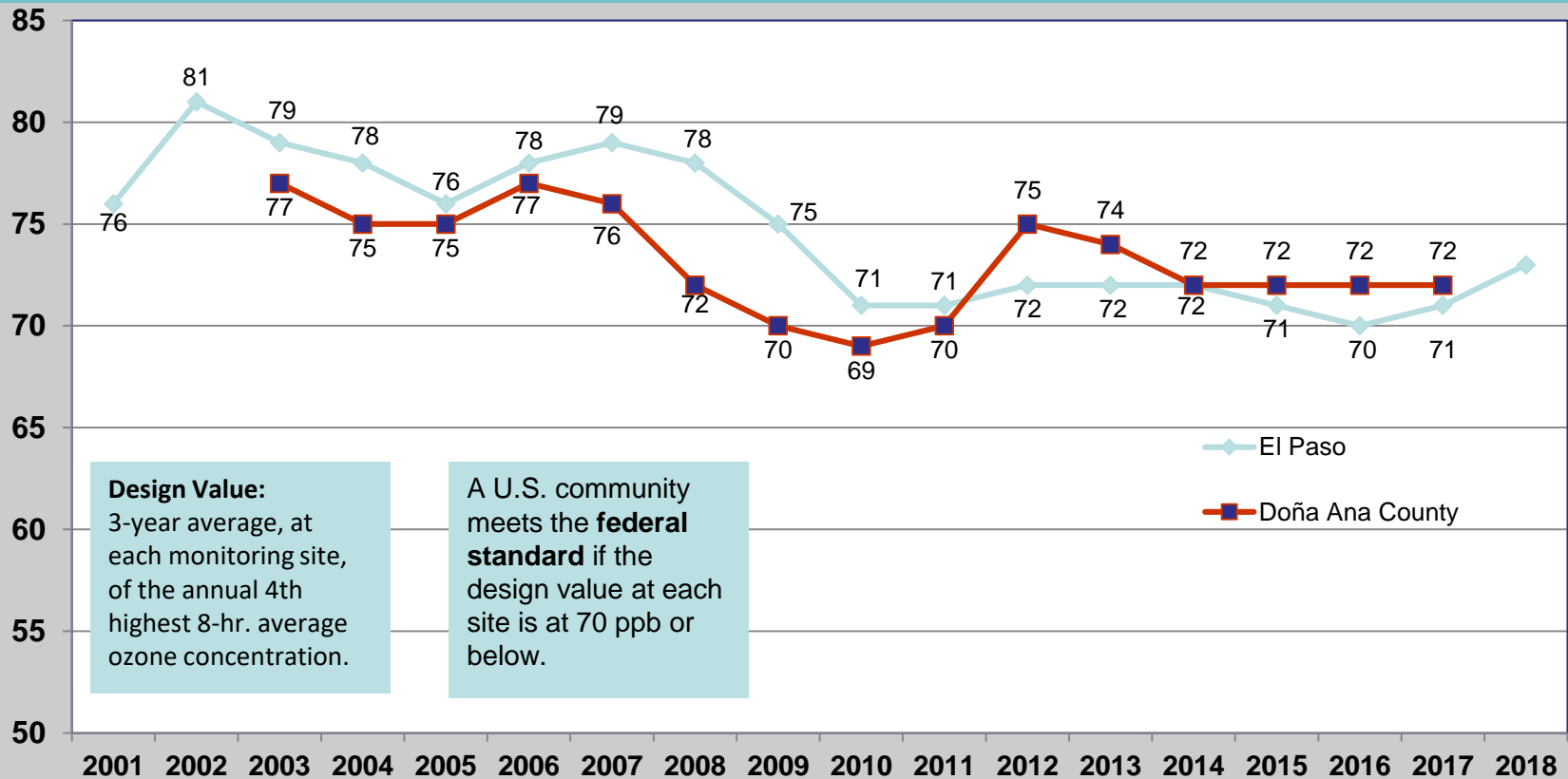
Ozone 8-Hr. Averages (in ppb) Four Highest Values at Monitors in El Paso and Doña Ana County. (January- April 30, 2019)



Ozone 8-Hr. Design Values

El Paso and Doña Ana County

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

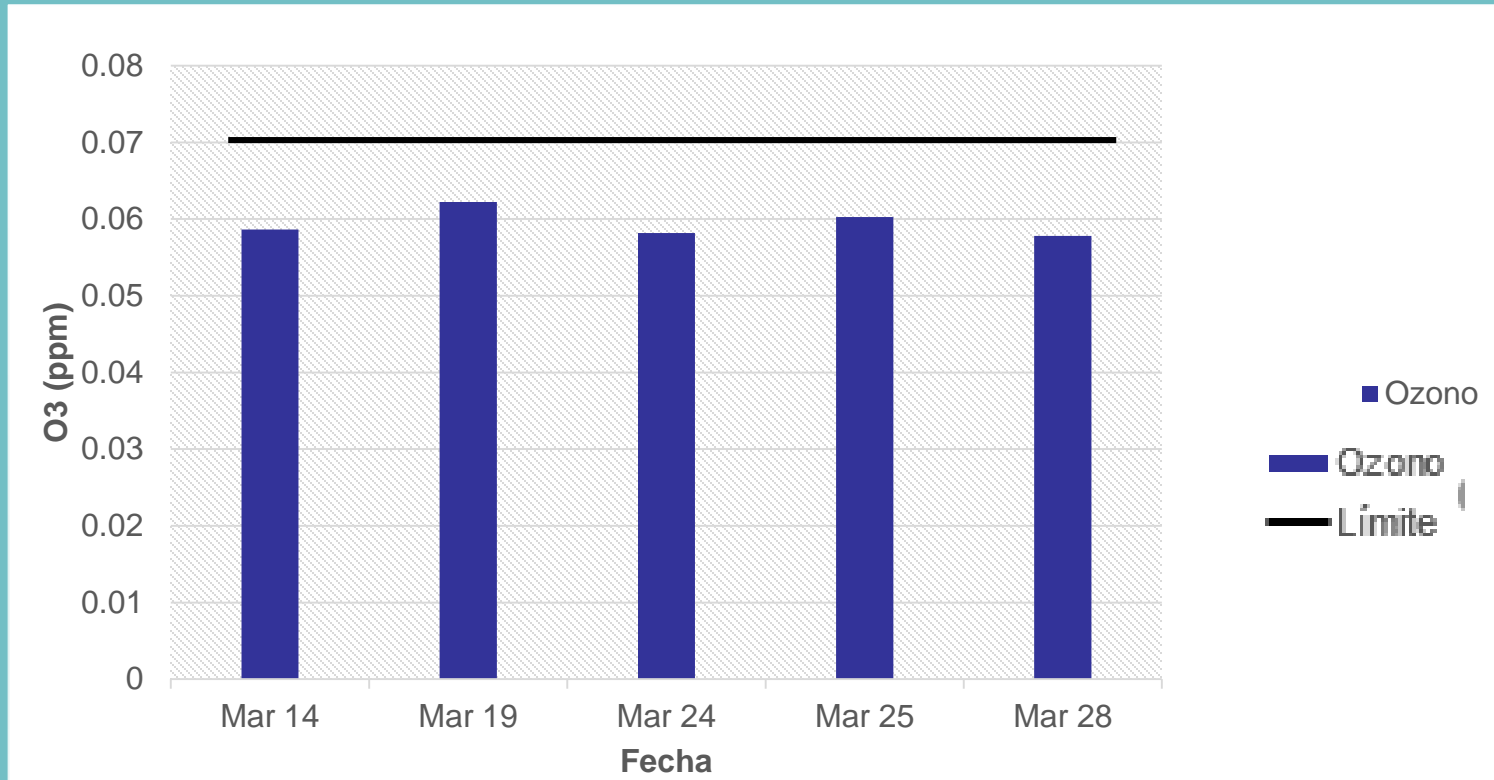


Ozono

Promedio móvil de 8 horas en Ciudad Juárez

Quintos máximos

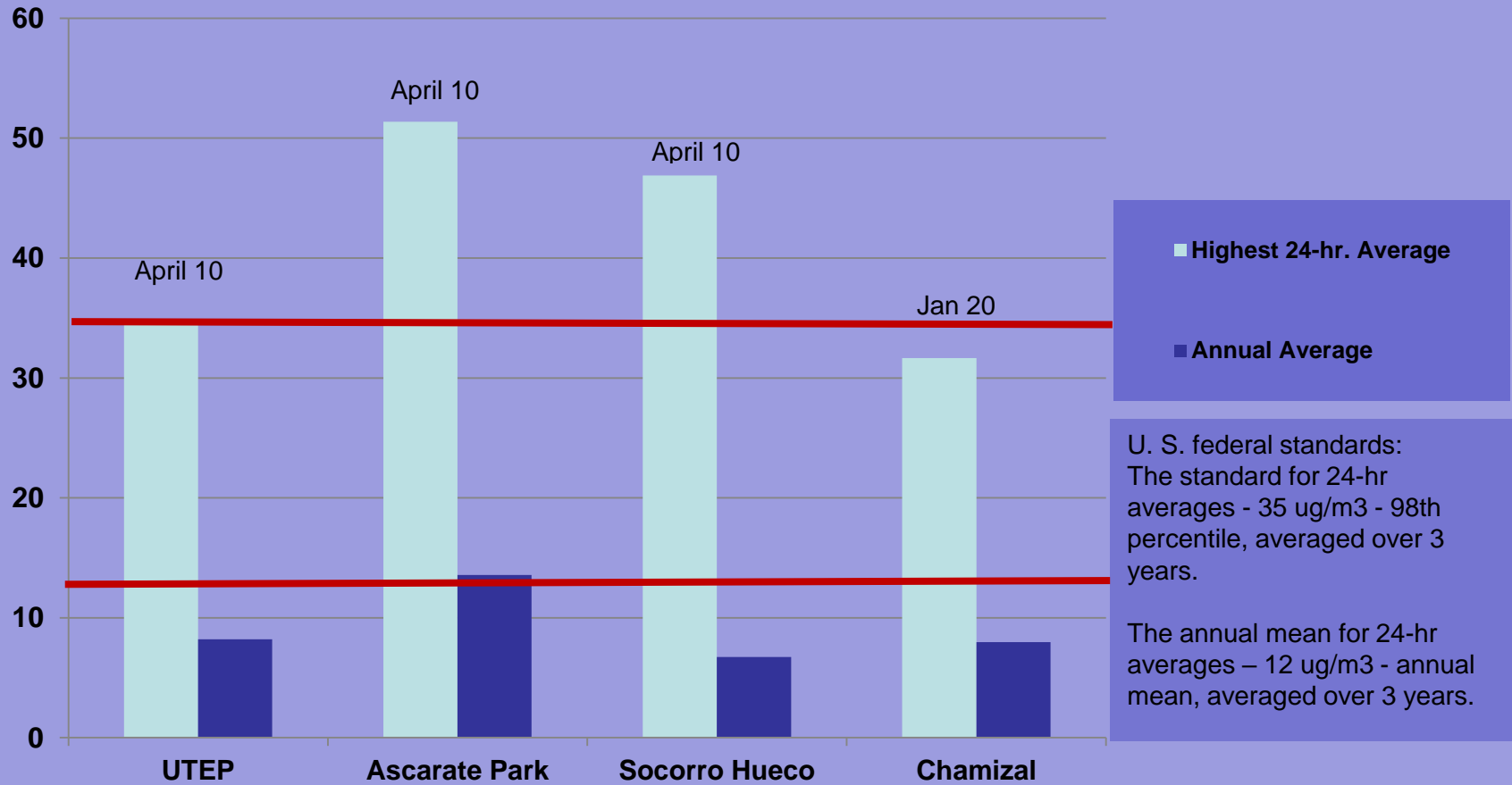
(Enero-marzo 2019)



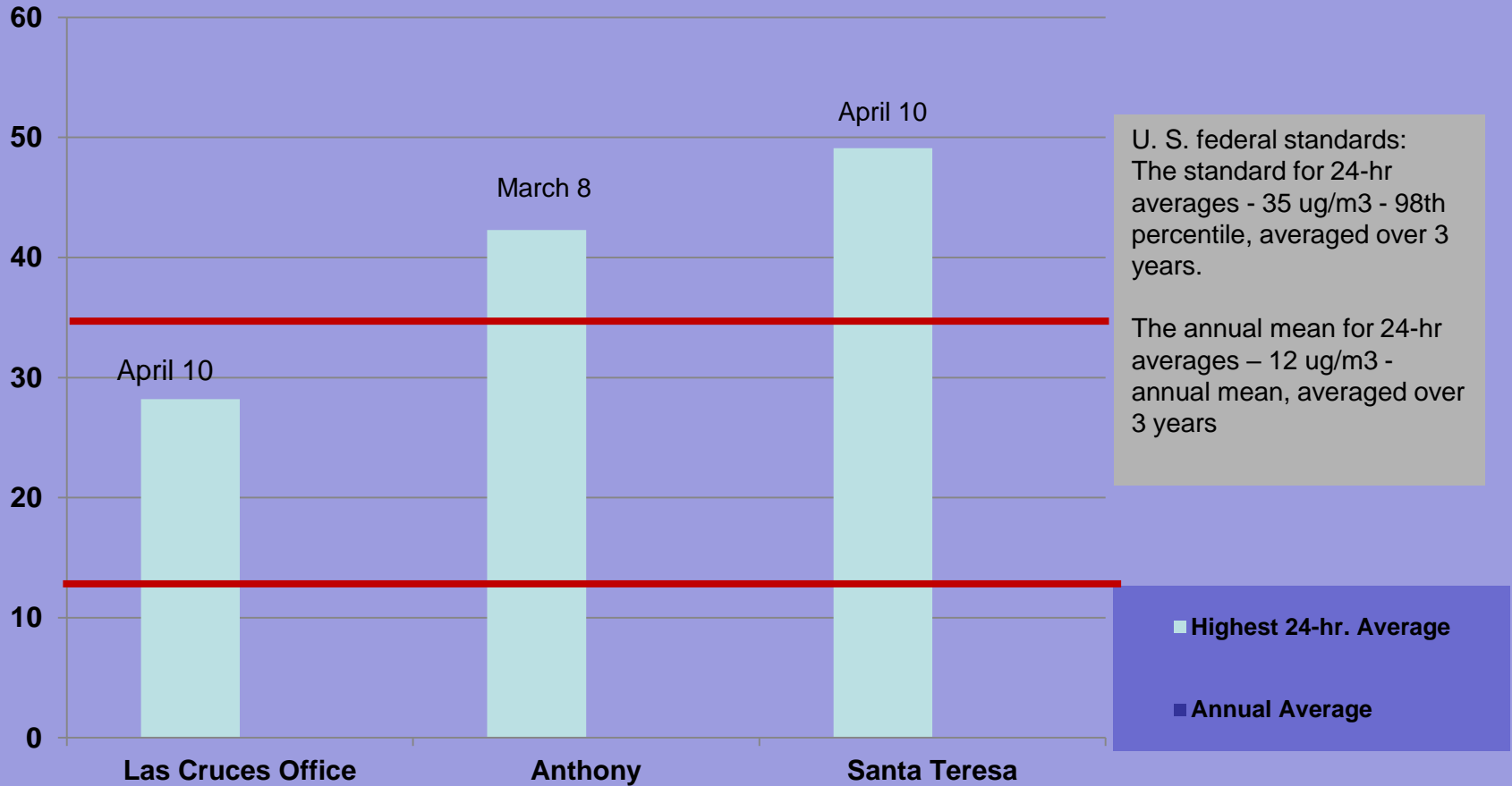
El límite máximo O₃ permisible en México es de 0.07 ppm (148 $\mu\text{g m}^{-3}$) en promedios móviles de 8 horas

Particulate Matter (PM)

PM_{2.5} Highest 24-Hr. Average and Annual Average Four Monitors in El Paso (in $\mu\text{g}/\text{m}^3$) January – April 30, 2019



PM_{2.5} Highest 24-Hr. Average and Annual Average (µg/m³) Doña Ana County January – April 30, 2019



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

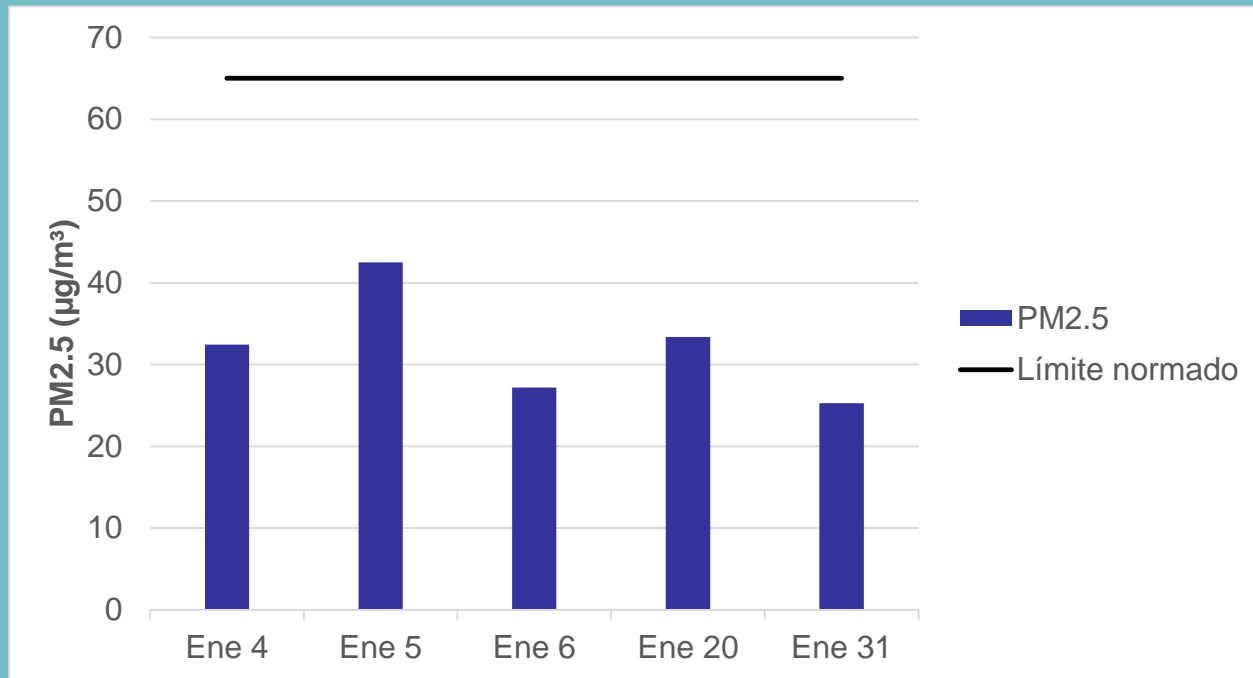
Annual Design Value

U.S. Standard	12 µg/m³
2017 Design Value for Chamizal	8.9 µg/m³
2017 Design Value for Anthony	7.3 µg/m³

24-Hour Design Value

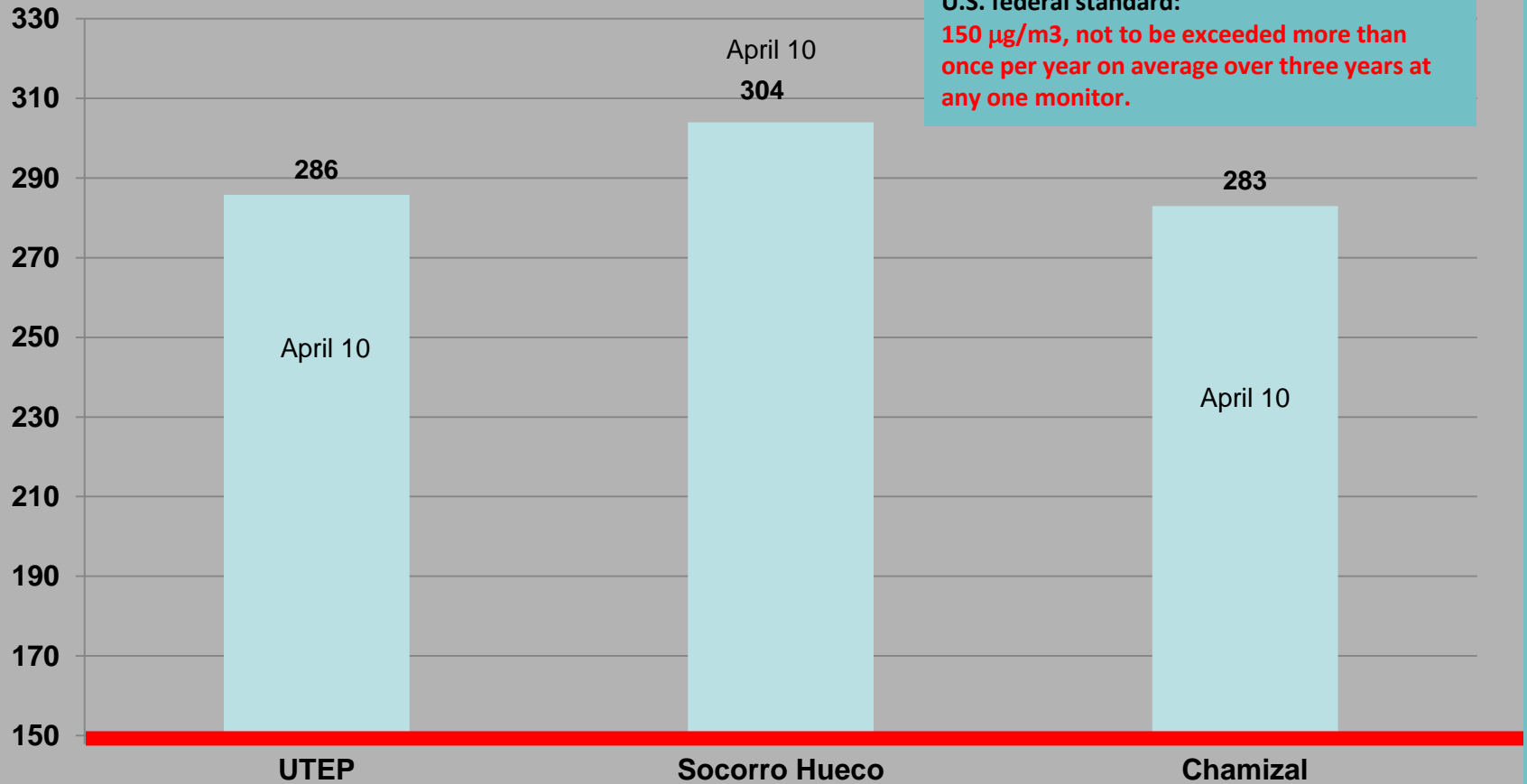
U.S. Standard	35 µg/m³
2017 Design Value for Chamizal	23 µg/m³
2017 Design Value for Anthony	20 µg/m³

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



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

PM₁₀ Highest 24-Hour Averages (in $\mu\text{g}/\text{m}^3$) Three Monitors in El Paso January – April 30, 2019

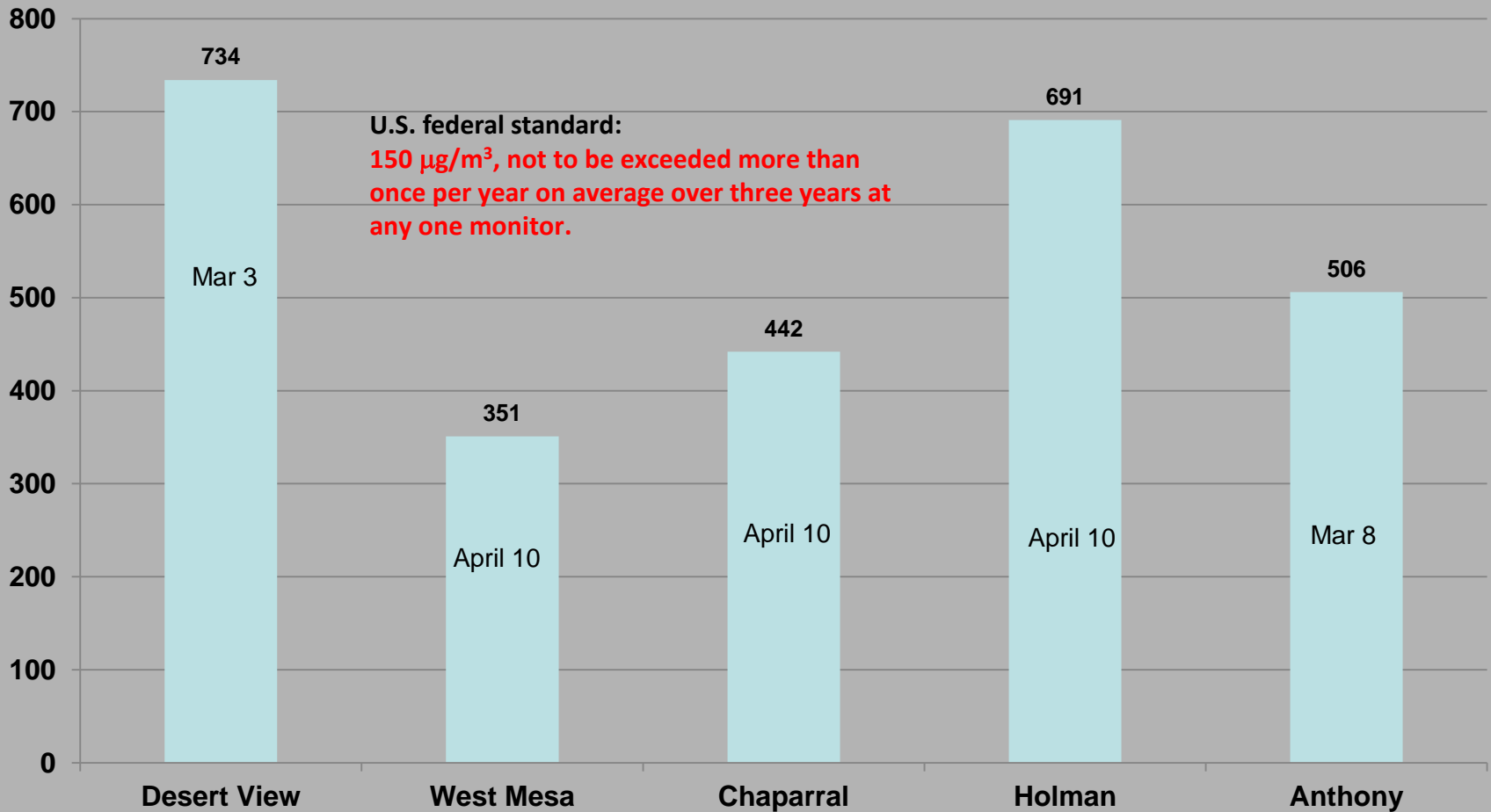


PM10

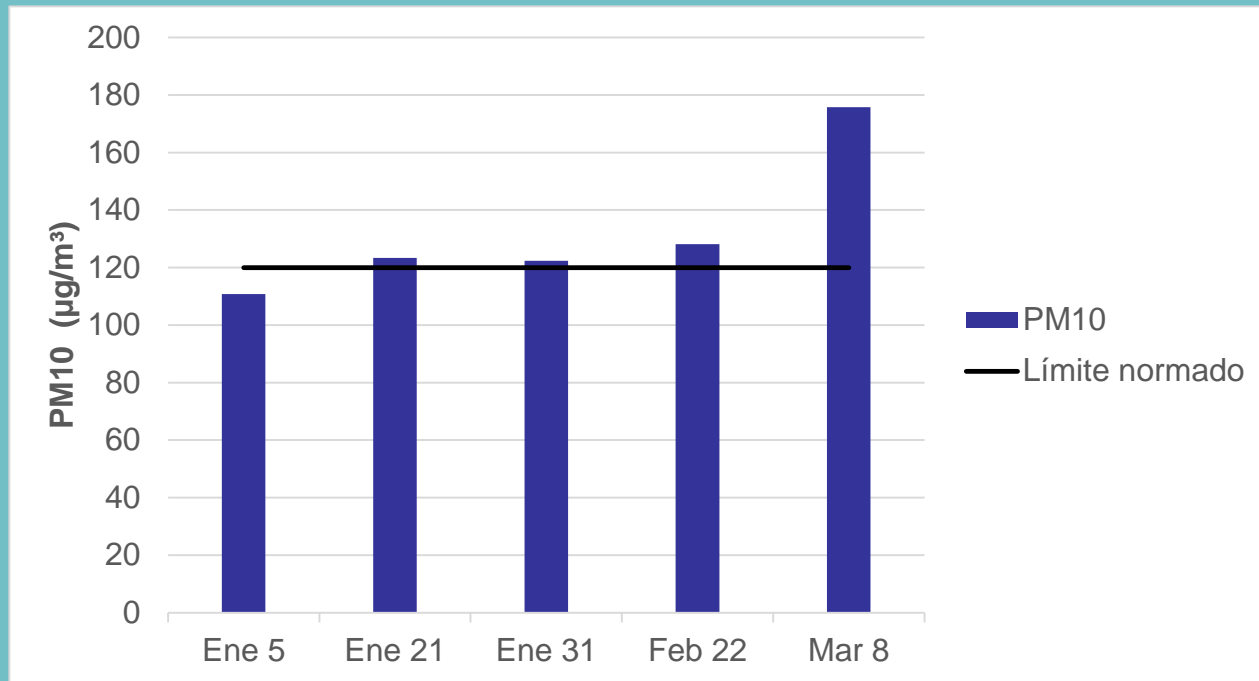
Highest 24-Hour Averages (in $\mu\text{g}/\text{m}^3$)

Five Monitors in New Mexico

January- April 30, 2019



PM₁₀
Promedios de 24 horas en Ciudad Juárez
5 valores máximos
(Enero-marzo 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
2015 - 2017

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**

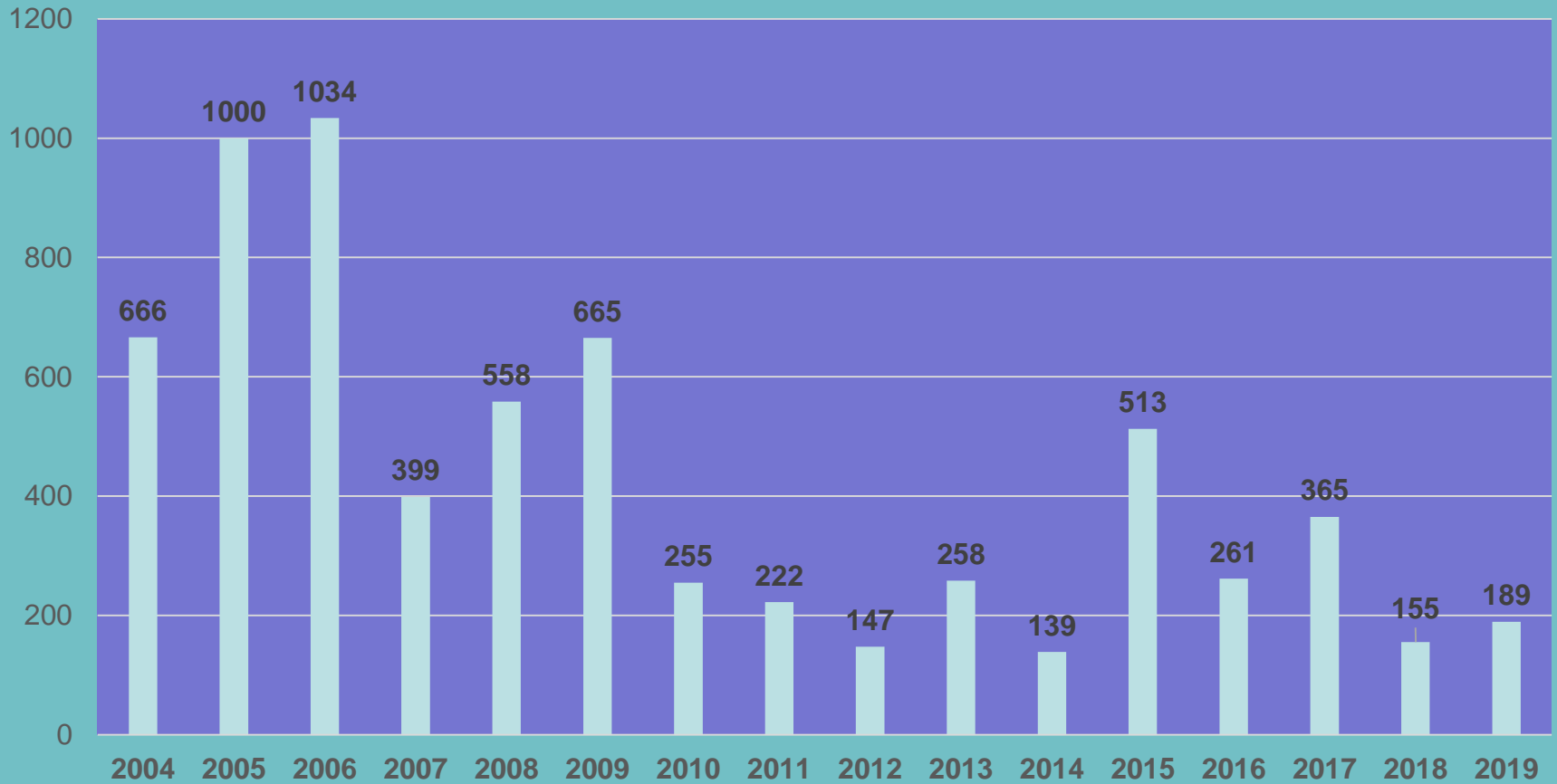
Socorro Hueco	2017	2	<u>estimated</u> exceedances
	2016	0	"
	2015	0	"
Desert View	2017	5.5	<u>estimated</u> exceedances
	2016	0	"
	2015	0	"

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

PM _{2.5}	15 µg m ⁻³	10.40 µg m ⁻³
PM ₁₀	50 µg m ⁻³	48.44 µg m ⁻³

Hydrogen Sulfide

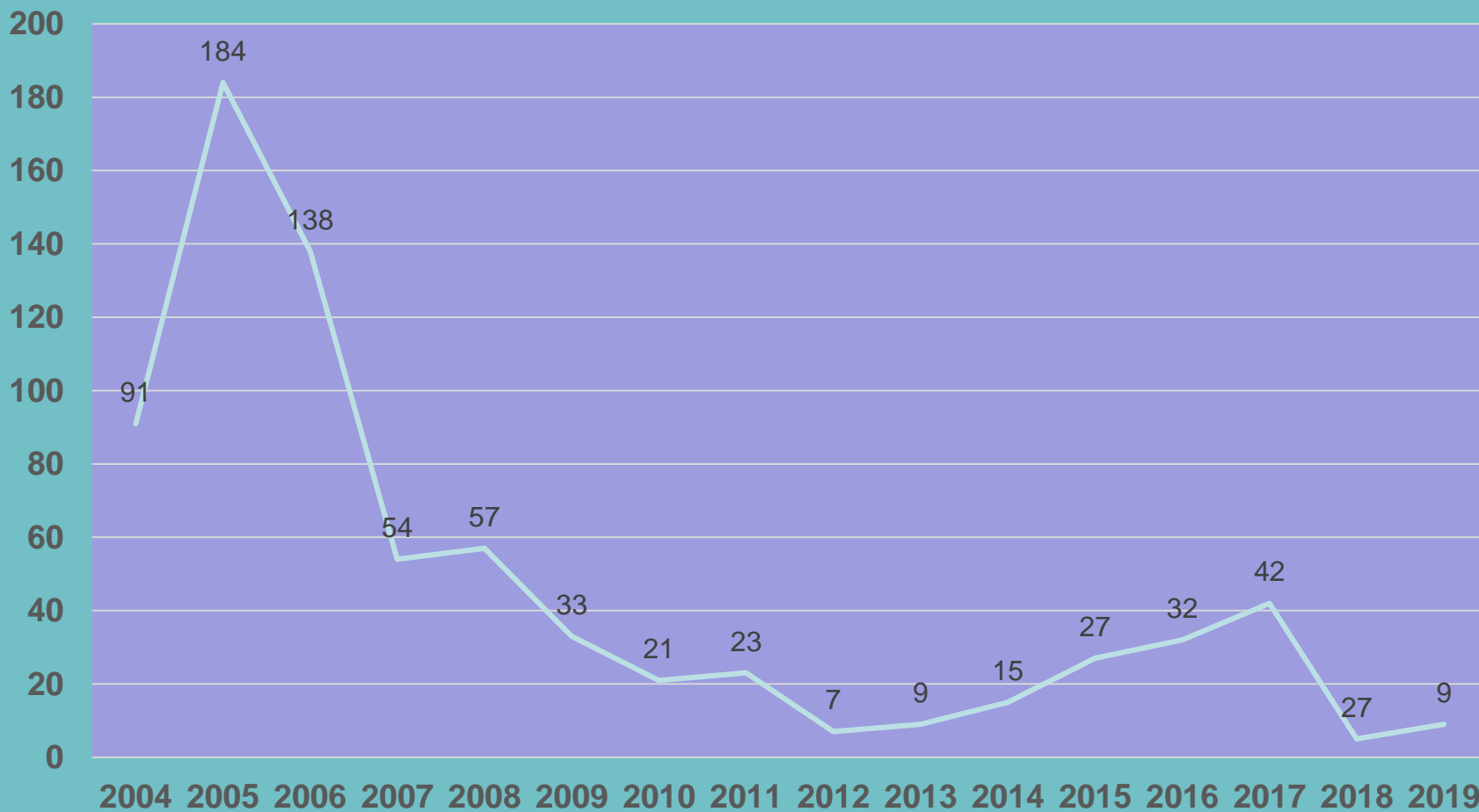
Hydrogen Sulfide – 30-Minute Averages Highest Value (in ppb) Each Year at “Lower Valley” Monitor (2004-2019)



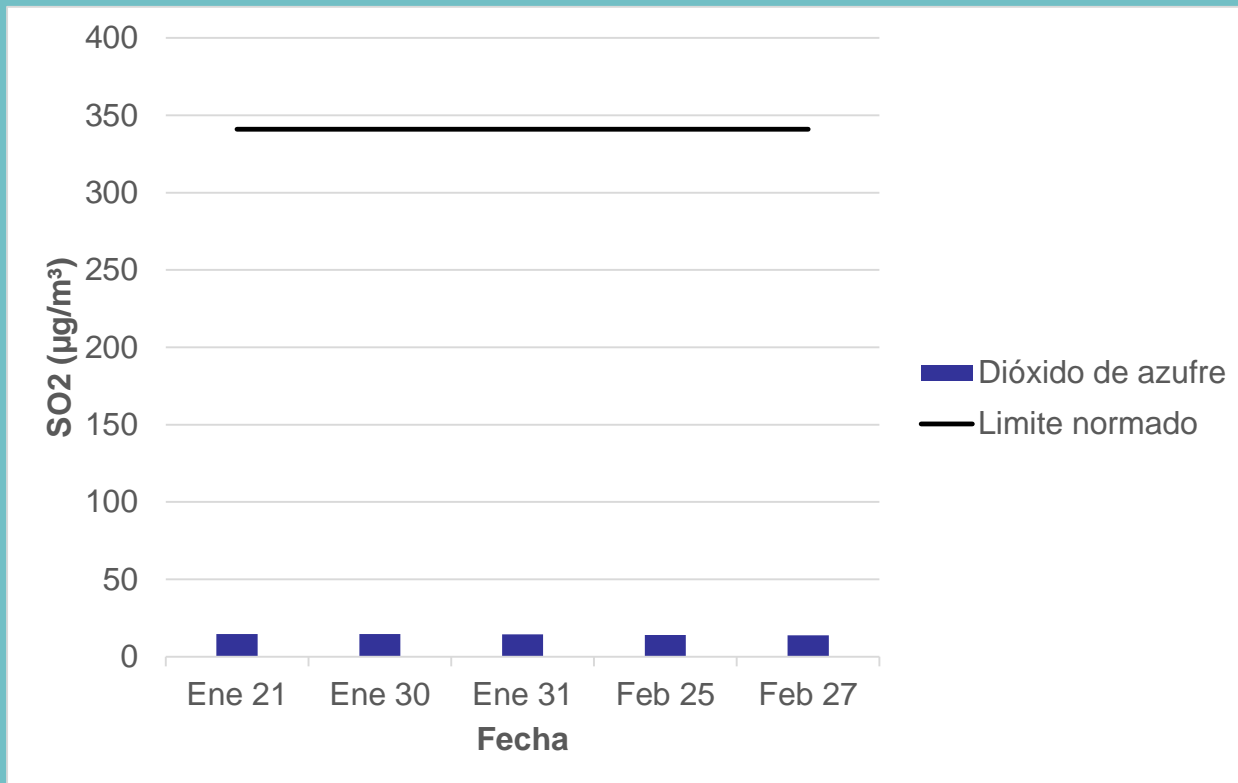
Hydrogen Sulfide – 30-Minute Averages Number of Exceedances (in ppb) Each Year at “Lower Valley” Monitor (2004-2019)



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



Dióxido de Azufre
Promedio de 24 horas en Ciudad Juárez
5 valores máximos
(Enero-marzo 2019)



El limite máximo permisible en México para SO₂ es de 341 µg m⁻³ en promedios diarios

