



*El Paso*



# YSLETA DEL SUR PUEBLO

AN UPDATE ON THE AIR QUALITY MONITORING AND ASSESSMENT PROJECT FROM  
THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

This presentation has been created with the cooperation of  
the Texas Commission on Environmental Quality and the  
Environmental Protection Agency.



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# RE-CAP FROM LAST PRESENTATION

- Who is Ysleta del Sur Pueblo
- Tribe was awarded a TCEQ grant known as the Ysleta del Sur Pueblo Air Quality Monitoring and Assessment
- What the grant is about
- Tasks involved
- Goals are to gain experience for a possible future Tribal air program



# ACTIONS REGARDING THE TCEQ GRANT

- Monitored online data output as first level quality assurance
- Shadowing operators and assisting with technical issues
- Attended trainings on Indoor Air Quality (IAQ), K-12 Geospatial on ArcGIS, Air Pollution Technology Course, Quality Assurance training course.
- Attending conference calls regarding updates on the Paso de Norte Region air quality with the Border 2020 Partners call. RTOC calls in preparation for the gap fund to keep networks and partnerships going. Participate in monthly meetings with the Environmental Advisory Committee in El Paso. Joined the Regional Haze calls.



# Observing Data Output of Cd. Juarez Air Monitoring Stations

<http://juarez.tx.sutron.com>

**G = data were collected that day**

**X = system is down**

Monthly Report for Cd. Juarez CAMS December 2018

Week interval	Time view (MST)	Time stamp (MST)	Delphi C663 Carbon Monoxide			Delphi C663 Ozone			Canales Lira C662 Carbon Monoxide			Canales Lira C662 Ozone			Advance C661 Carbon Monoxide			Advance C661 Ozone			Issues/error codes	Actions taken when system goes down	Outcome of The Action
			Mon	Wed	Fri	Mon	Wed	Fri	Mon	Wed	Fri	Mon	Wed	Fri	Mon	Wed	Fri	Mon	Wed	Fri			
2/03/18 to 2/07/18	10:43 to 17:00	9:00 to 16:00	G	G	G	G	G	G	X	X	X	G	G	G	X	X	X	X	X	X	No Change	No Change	No Change
2/10/18 to 2/14/18	8:32 to 12:44	7:00 to 11:00	G	G	G	G	G	G	X	X	X	G	G	G	X	X	X	X	X	X	No Change	No Change	No Change
2/17/18 to 2/21/18	8:06 to 14:25	7:00 to 13:00	G	X	X	G	X	X	X	X	X	G	X	X	X	X	X	X	X	X	Both CAMS stations Canales Lira and Delphi are giving an LST code for both Carbon Monoxide and Ozone. Codes have been noted on website since 12/18/2018.	Ricardo has been advised via email on 12/19/2018 @ 8:45 with a cc to Evaristo Cruz, Eddie Moderow, and Margarita Pena. An attachment with current data has been sent as well.	Eddie Moderow responded on 12/19/2018 @ 15:03 and stated that the internet went down and all measured parameters fell off line. The instruments are collecting data correctly, but they're not reporting. Municipio de Juarez is currently working with their internet connection to fix the problem.
2/24/18 to 2/28/18	N/A	N/A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Still no data available due to systems being off line; currently under new management	No change	No Change

The Advance CAMS is not reporting data in real time because the station internet connection is not functional. Juárez staff are working with a contractor to fix the issue. In the meantime Juárez E-mail data to Sutron every two weeks for posting online.

**G** – denotes data were collected that day

**X** – denotes there was an error code - and system is down; link to glossary of error codes: [http://juarez.tx.sutron.com/cgi-bin/daily\\_info.pl?nodata](http://juarez.tx.sutron.com/cgi-bin/daily_info.pl?nodata)





# CAMS FROM TCEQ

The TCEQ air monitoring station also contains the same components from those of the City of El Paso.

- For this air station, the component at the bottom is an analyzer for nitrogen oxides
- Component above is a calibrator
- The component next to the dual set is a zero air analyzer which works hand in hand with the calibrator to stabilize it.
- The Xpert is a data logger and is used to transmit data and take measurements.



Texas Commission on Environmental Quality CAMS site log in sheet					
CAMS Site	Operator	Owner	History	Where to Access Data	Descriptive Features
Ascarate CAMS site 37: 31°44'48.18" N 106°24'9.95" W	Abel Rodriguez and Rudy Zaragoza	Texas Commission of Environmental Quality (TCEQ)		Data access can be done on the Rhone or amda pages online	23-Jan-19  For this particular station, a laboratory clinical check (LCC) was conducted. Procedure are as follows: go to expert and change each parameter to Q code; purge the air from the canister of NOx and NO; connect the gas canister to the calibrator inlet and run for 15 minutes to reach a value of 160 for NO, 0 for O, and 160 for NOx. The calibrator is called the audit and is used to give gas to the zero analyzer with gas extracted from the canisters; values have to be validated in order for it to give the test a pass or a fail; in this case when running the LCC test for this station, the calibrator verification failed the test which operators in this case had to continue trouble shooting; if the calibrator verification continued to fail, a span and a spanz had to be assessed in order to adjust it to a point 5.
Trowbridge and Clark site CAMS 123: 31°46'33.56" N 106°24'47.39" W	Abel Rodriguez and Rudy Zaragoza	Texas Commission of Environmental Quality (TCEQ)		Data access can be done on the Rhone or amda pages online	
Loop 375 and Plant Rd. CAMS Site 36: 31°42'13.78" N 106°21'21.57" W	Abel Rodriguez and Rudy Zaragoza	Texas Commission of Environmental Quality (TCEQ)		Data access can be done on the Rhone or amda pages online	
Hueco Elementary School CAMS site 49: 31°40'3.10"N 106°17'16.72" W	Abel Rodriguez and Rudy Zaragoza	Texas Commission of Environmental Quality (TCEQ)		Data access can be done on the Rhone or amda pages online	
UTEP location CAMS site 12: 31°46'5.78" N 106°30'4.72" W	Abel Rodriguez and Rudy Zaragoza	Texas Commission of Environmental Quality (TCEQ)	This location had a parameter of SO2 which became obsolete.	Data access can be done on the Rhone or amda pages online	For this particular station operators Rudy and Abel performed a Zero Maintenance check. Procedures are as follows: Go to expert login and enter p code for each parameter; empty air first from the zero analyzer component; then empty out the pura fill and the black charcoal and change out filter; take out the purafill and the black charcoal from their containers with a vacuum then replace with new purafill and charcoal; place caps on both canisters then cap the gas inlet to prevent from any air escaping; when testing for leaks, a non leakage zero air analyzer should read a psi of 30 of 35; run the test for about 1 minute or 2 to make sure it has a stable psi of 30 to 35; when pressure test is completed, remove cap and place back tubing from analyzers in the gas inlet; when done, go back to expert and enter k code for each parameter. Soon after create report of activity.
Chamizal site CAMS site 41: 31°45'56.32" N 106°27'18.89" W	Abel Rodriguez and Rudy Zaragoza	Texas Commission of Environmental Quality (TCEQ)		Data access can be done on the Rhone or amda pages online	

**Table above gives the description and location for each CAMS site from the Texas Commission on Environmental Quality (TCEQ).  
If other visits will be made, the information may be edited or revised on this table.**

**Limitations: Additional time is needed to visit the CAMS sites from TCEQ to complete the missing information from the table above.**



# SHADOWING OPERATORS FOR THE PURPOSE OF BUILDING EXPERIENCE AND LEARNING THEIR FUNCTIONALITY AND FEATURES

This particular air station is located in Ojo de Agua Dr. and managed by the City of El Paso

It monitors Carbon Monoxide.

Components visualized on the right picture from top to bottom are Carbon Monoxide Analyzer, Calibrator Model 5008, and Zero Air Generator Model 701

Towards the back shelf are Carbon Monoxide and Oxygen gas cylinders

Air generator is used to inject CO or O from gas cylinders during preventive maintenance checks

CO gas cylinder is used to calibrate

O is used to clean out CO contents from calibrator

The data transmitter is a component used to send data to Austin.



# PARTICULATE MATTER PM CONTINUOUS AIR MONITORING STATIONS AT CHAMIZAL



Picture above is a Partisol 2025i FRM ;measures PM 2.5 and runs every 3 days. The collocated instrument Posterior is same model and runs every 6 days.

Picture below exhibits a Super SASS PM air monitoring station and runs every 3 days



Picture above is the master and slave PM continuous air monitoring station BAM 1020 model





## CD. JUAREZ CAMS

The components above are Carbon Monoxide and Ozone analyzers

The bottom picture is a data transmitter located in the center of the picture.

To the right is a calibrator.

It closely resembles the same set up of those just observed from the City of El Paso and TCEQ.

TCEQ is currently coordinating with Ecología, SEDUE, SEMARNAT and other stakeholders to transition to SINAICA, the national Mexican data-hosting platform that can transmit and publicize information and data of ambient air quality to the public.

An analyzer and a calibrator will also be replaced for the 3 CAMS station in Cd. Juárez.



# TRAININGS ATTENDED

- K-12 geospatial training – focused on teaching K-12 grade students on geospatial analysis through ArcGIS.
- QA training in Addison, Texas- focused on Quality assurance and quality management planning.
- Air pollution tech course- focused on ambient air pollution



# HOW HAS IT BENEFITED THE PUEBLO EXPOSURE TO TRAININGS AND COLLABORATING WITH PARTNERS AND ENVIRONMENTAL STAKEHOLDERS

- Creating outreach and educating the Tribal community on the importance of air quality indoor and out
- Gives the Tribe insight to other environmental programs implemented by other Tribes.
- Environmental concern and the need to continue collaborating with partners in addressing air pollution
- Gained experience and knowledge for Tribal staff on the ambient air concerns, monitoring ambient air, policies and regulations with states and cities concerning ambient air and implementation plans



# THE FUTURE AS THE TCEQ GRANT CLOSES OUT

- Apply for the Indian General Assistance Program
  - A type of program that helps Tribes to develop environmental programs by building capacity.
- Ysleta del Sur Pueblo will continue working on ambient air quality monitoring in assessing and analyzing the Paso del Norte Region's air shed as part of the work plan from GAP.
- Keeping partnerships and networking with environmental professionals and stakeholders for support on the Pueblo e.g.,
  - Border 2020 Partners call, JAC meetings, Regional Tribal Operations Committee (RTOC), Intertribal Resource Committee (IRAC), Environmental Advisory Committee (EAC), CENSARA Regional Haze meeting
- Providing support and community education and outreach on recycling and waste products
- Explore with Energy Star Portfolio manager for the purpose of minimizing energy consumption within the Pueblo



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*Thank you*

