



## **Pechanga Band of Luiseño Indians Environmental Department**



July 1, 2016

Pechanga Band of Luiseño Indians | Environmental Department  
P.O. Box 1477 | Temecula | California | 92593

## Table of Contents

Network Design .....	1
Minimum Monitoring Requirements .....	2
Ozone .....	4
PM <sub>2.5</sub> .....	4
NO <sub>2</sub> .....	5
Recent or Proposed Modifications to Network.....	7
Data Availability.....	7
Detailed Site Information.....	7
Site Name: Pechanga .....	7

## Tables

Table 1 Pechanga Air Monitoring Station .....	3
Table 2 Minimum Monitoring Requirements for Ozone.....	4
Table 3 Minimum Monitoring Requirements for PM <sub>2.5</sub> .....	5
Table 4 Minimum Monitoring Requirements for NO <sub>2</sub> .....	6

## Acronyms, Abbreviations, and Definitions

**Air Toxics** – suite of parameters that includes VOCs, carbonyls, and metals

**AQI** – Air Quality Index

**AQS** – Air Quality System: EPA's repository of ambient air quality data

**BAM** – Beta Attenuation Mass

**CAA** – Clean Air Act

**CFR** – Code of Federal Regulations

**CO** – carbon monoxide

**Criteria Pollutants** – the six pollutants regulated by the 1970 Clean Air Act (particulate matter, ozone, nitrogen dioxide, sulfur dioxide, carbon monoxide, and lead)

**EPA** – Environmental Protection Agency

**FEM** – Federal Equivalent Method

**FRM** – Federal Reference Method

**HAP** – Hazardous Air Pollutant

**Hg** – mercury

**HRV** – Health Risk Value

**IMPROVE** – Interagency Monitoring of Protected Visual Environments

**MSA** – Metropolitan Statistical Area

**NAAQS** – National Ambient Air Quality Standard

**NCore** – National Core Monitoring Network

**NO** – nitric oxide

**NO<sub>2</sub>** – nitrogen dioxide

**NO<sub>x</sub>** – oxides of nitrogen

**NTN** – National Trends Network

**O<sub>3</sub>** – ozone

**PM<sub>2.5</sub>** – particulate matter less than 2.5 microns in diameter (fine particulate matter)

**PM<sub>10</sub>** – particulate matter less than 10 microns in diameter  
ppb – parts per billion  
ppm – parts per million

**PQAO** – Primary Quality Assurance Organization

**QAPP** – Quality Assurance Project Plans

**QA/QC** – Quality Assurance/Quality Control

**QMP** – Quality Management Plan

**SLAMS** – State and Local Air Monitoring Stations

**SPM** – special purpose monitoring

**TSP** – total suspended particulate matter

**VOC** – Volatile Organic Compound

## **Introduction**

The United States Environmental Protection Agency (EPA), through the Code of Federal Regulations (CFR) requires the Pechanga Band of Luiseño Indians (Tribe) to complete the Ambient Air Monitoring Annual Network Plan for the Tribe's ambient air monitoring station. EPA's requirements for the annual plan are listed in 40 CFR § 58.10.

The regulations from Title 40, Part 58, Section 10(a) of the Code of Federal Regulations (40 CFR 58.10, (a)(1)) state that:

*“Beginning July 1, 2007, the State, or where applicable local, agency shall adopt and submit to the Regional Administrator an annual monitoring network plan which shall provide for the establishment and maintenance of an air quality surveillance system that consists of a network of SLAMS monitoring stations including FRM, FEM, and ARM monitors that are part of SLAMS, NCore stations, STN stations, State speciation stations, SPM stations, and/or, in serious, severe and extreme ozone nonattainment areas, PAMS stations, and SPM monitoring stations. The plan shall include a statement of purposes for each monitor and evidence that siting and operation of each monitor meets the requirements of appendices A, C, D, and E of this part, where applicable. The annual monitoring network plan must be made available for public inspection for at least 30 days prior to submission to EPA.”*

It is the Tribe's objective to maintain and operate its ambient air monitoring station according to all applicable federal regulations and guideline documents. The purpose of this Ambient Air Monitoring Network Plan (Plan) is to provide evidence that current regulations are being met for the Pechanga air monitoring network, to detail any changes proposed for the 18 months following its publication, and to provide specific information on the existing monitoring site.

The Tribe operates the Air Monitoring Program through the Pechanga Environmental Department (PED). The PED staff performs a complete review of the Pechanga Air Program annually to ensure the program is running effectively and within compliance for valid data submission.

The Pechanga Air Program began in 2008 with the collection of air quality data according to the program Quality Assurance Project Plan (QAPP) which follows the US EPA National Ambient Air Quality Standards (NAAQS). The data collected and monitored at Pechanga Air Station includes ozone (O<sub>3</sub>), Particulate Matter (PM<sub>2.5</sub>), and oxides of nitrogen (NO<sub>x</sub>), which are submitted annually to the EPA.

## **Public Comment**

The annual monitoring network plan must be made available for public inspection for 30 days prior to submission to U.S. EPA. Information on how to comment on the plan and any comments received are listed in Appendix A.

## Network Design

The Tribe has been operating its air monitoring station since 2008. The site is located on the Pechanga Indian Reservation (Reservation) on the southeastern boundary of the city of Temecula (Figure 1). The single air monitoring site collects data for multiple pollutants. Table 1 provides a list of monitoring locations, pollutants monitored and the EPA Air Quality System (AQS) site code. On April 3, 2015, the Environmental Protection Agency (EPA) took a final action to revise the boundaries of the Southern California air quality planning areas to designate the reservation of the Pechanga Band of Luiseño Indians of the Pechanga Reservation, California as a separate air quality planning area for the 1997 8-hour ozone National Ambient Air Quality Standard.



**Figure 1 – Pechanga Air Station Location  
 Air Quality Planning Area for the 1997 8-hour ozone National Ambient Air  
 Quality Standard**

Site Name	AQS Code	Pollutants Monitored
Pechanga Air Station	TT-586-0009	NO <sub>2</sub> O <sub>3</sub> PM <sub>2.5</sub>

**Table 1 – Pechanga Air Station Pollutants Monitored**

### **Site Selection and Purpose**

The selection of the air monitoring site was based on the basic monitoring objectives listed below:

- determine representative concentrations and exposure in areas of population density;
- determine the highest concentrations of pollutants in an area based on topography and/or wind patterns;
- judge compliance with and/or progress made towards meeting the NAAQS;
- track pollution trends;
- determine general background concentration levels (The exact location of a site is most often dependent on the logistics of the area chosen for monitoring, such as site access, security and power availability); and,
- determine the welfare-related impacts in more rural and remote areas such as visibility impairment and effects on vegetation.

### **NAAQS Comparable**

40 CFR Part 58 Appendix B requires the identification of any sites that are suitable or not suitable for comparison against the 24-hour PM<sub>2.5</sub> NAAQS as described in Section §58.30. Pechanga air station meets this NAAQS requirement.

### **Metropolitan Statistical Areas**

Metropolitan Statistical Areas (MSAs) are defined by the U.S Office of Management and Budget as geographical areas having a large population nucleus and a high degree of economic and social integration with the nucleus. Pechanga Reservation is classified as an MSA according to its population; it does not meet the definition of CBSA or CSA according to 40 CFR Part 58 Appendix D 2e. Pechanga Reservation is a part of the Riverside-San Bernardino-Ontario MSA which is sometimes referred to as the “Inland Empire” and encompasses Riverside County, San Bernardino County, and Eastern Los Angeles County<sup>1</sup>.

### **Minimum Monitoring Requirements**

The Pechanga monitoring station meets the minimum monitoring requirements for all criteria pollutants O<sub>3</sub>, PM<sub>2.5</sub>, NO<sub>2</sub> (Tables 2, 3, and 4).

---

<sup>1</sup> U.S. Department of Commerce Economics and Statistics Administration U.S. Census Bureau. 2013. ([http://www2.census.gov/geo/maps/metroarea/stcbsa\\_pg/Feb2013/cbsa2013\\_CA.pdf](http://www2.census.gov/geo/maps/metroarea/stcbsa_pg/Feb2013/cbsa2013_CA.pdf))

**Ozone**

Ground-level O<sub>3</sub>, or photochemical smog, is not emitted into the atmosphere as ozone, but rather is formed by the reactions of other pollutants. The primary pollutants entering into this reaction, Volatile Organic Compounds (VOCs) and oxides of nitrogen (NO<sub>x</sub>), create ozone in the presence of sunlight (ultraviolet radiation).

Ozone exposure has been associated with increased susceptibility to respiratory infections, medication use, doctor and emergency department visits and hospital admissions for individuals with lung disease. Ozone exposure also increases the risk of premature death from heart and lung disease. Children are at increased risk from ozone because their lungs are still developing and they are more likely to have increased exposure since they are often active outdoors<sup>2</sup>.

In addition, cumulative ozone exposure can lead to reduced tree growth; visibly injured leaves and increased susceptibility to disease, damage from insects and harsh weather. These effects can have adverse impacts on ecosystems, including loss of species and changes to habitat quality, and water and nutrient cycles<sup>3</sup>.

**Table 2 Minimum Monitoring Requirements for O<sub>3</sub>**

MSA	County	County Population in Year 2010	Annual Design Value 2013-2015 (ppm)	Monitors Required	Active Monitors	Monitors Needed
Pechanga Indian Reservation	Riverside/San Diego	2,189,64/ 13,095,313	33.95	1	1	0

The Pechanga air station uses a Thermo Scientific Model 49i ozone analyzer which is used to measure continuous ambient concentrations of ozone (O<sub>3</sub>). The Model 49i operates on the principle that ozone (O<sub>3</sub>) molecules absorb UV light at a wavelength of 254 nm. The sample is drawn into the Model 49i through the sample bulkhead and is split into two gas streams. The two samples are then analyzed and averaged. This analyzer was designated by the EPA as an equivalent method for the monitoring of O<sub>3</sub>, (EQOA-0880-047, August 27, 1980).

The station uses a datalogger, Agilaire 8872 which is a Windows-based datalogger, installed on the Pechanga Server. The 8872 includes a number of hardware and software features to ensure that the device matches the field reliability. This software provides the O<sub>3</sub> data in 5-minute, hourly, 8-hourly, and daily averages. The statistics that are calculated and presented in the O<sub>3</sub> data reports include: 1) maximum 1-hour average for the month; and, 2) maximum running 8-hour average for each day. Both are calculated per the method described in 40 CFR 50 Appendix I.

**PM<sub>2.5</sub>**

Fine particulate matter with a diameter of 2.5 microns or less is created primarily from industrial processes and fuel combustion. These particles are breathed deeply into the lungs. Exposure to

<sup>2</sup> U.S. EPA. 2015. Ozone and Your Patients’ Health Training for Health Care Providers. (<http://www.epa.gov/apti/ozonehealth/population.html>)

<sup>3</sup> U.S. EPA. 2015. Ground-level Ozone Ecosystem Effects. (<http://www.epa.gov/groundlevelozone/ecosystem.html>)

particle pollution is linked to a variety of significant health problems ranging from aggravated asthma to premature death in people with heart and lung disease<sup>4</sup>.

**Table 3 Minimum Monitoring Requirements for PM<sub>2.5</sub>**

MSA	County	County Population in Year 2010	Annual Design Value 2013-2015 $\mu\text{g}/\text{m}^3$	Daily Design Value $\mu\text{g}/\text{m}^3$	Monitors Required	Active Monitors	Monitors Needed
Pechanga Indian Reservation	Riverside/San Diego	2,189,64/ 13,095,313	19.90	-	0	2	0

The method used for the Beta Attenuation Monitor Model 1020 configured for PM<sub>2.5</sub> Federal Equivalent Method (FEM) monitoring includes sampling of ambient air through a standard EPA PM<sub>10</sub> inlet head and a Very Sharp Cut Cyclone (VSCC) at a volumetric flow rate of 16.7l per minute. A Smart Heater attached to the inlet system, and controlled by relative humidity (RH) measured at the filter tape, minimizes positive artifact from water sorption in humid environments. Particles in the air stream are collected and measured on quartz fiber filter tape. PM<sub>2.5</sub> concentrations and sampling attribute data are reported hourly for a 24-hour period, from midnight to midnight.

A collocated PM<sub>2.5</sub> sampler at the air station is a Thermo Scientific Partisol Model 2000i. The Partisol 2000i Air Sampler was designed to conform to the U.S. EPA Federal Reference Method for fine particulate sampling. The hardware was designed to meet or exceed the requirements of CFR 40 Part 50. It is located 1.5 meters from the primary sampler, at a right angle to the prevailing southwest wind direction. Its sample inlet is nine meters above the ground, at the same height as the primary sampler. The Partisol 2000i sampler operates by splitting a PM<sub>10</sub> sample stream into its fine (PM<sub>2.5</sub>) and coarse fractions (particles between 2.5 and 10 microns in size) using an U.S. EPA designed virtual impactor for the 2.5 micron cutpoint. The system collects particulate matter on two 47 mm diameter filters simultaneously. The sampler is operated for a 24-hour period, from midnight to midnight, once every 6 days, according to the national schedule<sup>5</sup>.

**NO<sub>2</sub>**

NO<sub>2</sub> is a highly toxic, reddish brown gas that is created primarily from fuel combustion in industrial sources and vehicles. It creates an odorous haze that causes eye and sinus irritation, blocks natural sunlight, and reduces visibility.

<sup>4</sup> AirNow. 2015. Particle Pollution (PM). (<http://www.airnow.gov/index.cfm?action=aqibasics.particle>)

<sup>5</sup> U.S. EPA. 2015. Nitrogen Dioxide Health. (<http://www.epa.gov/airquality/nitrogenoxides/health.html>)



**Table 4 Minimum Monitoring Requirements for NO<sub>2</sub>**

MSA	County	County Population in Year 2010	Annual Design Value 2013-2016 (ppm)	Monitors Required	Active Monitors	Monitors Needed
Pechanga Indian Reservation	Riverside/San Diego	2,189,64/ 13,095,313	4.99	0	1	0

The air program uses a Teledyne Model T200 Nitrogen Oxides Analyzer which uses chemiluminescence detection, coupled with state-of-the-art microprocessor technology to provide the sensitivity, stability and ease of use needed for ambient or dilution CEM monitoring requirements of nitric oxide (NO), nitrogen dioxide (NO<sub>2</sub>) and the total nitrogen oxides (NO<sub>x</sub>). This analyzer was designated by the EPA as an reference method for the monitoring of NO<sub>2</sub>, as method RFNA-1104-099.

The station uses a datalogger, Agilaire 8872 software which provides the NO<sub>x</sub> data in 5-minute, hourly, 8-hourly, and daily averages. The data are then processed and averaged for comparisons to federal ambient air quality standards. The statistics that are calculated and presented in the NO<sub>x</sub> data reports are: 1) maximum 1-hour average for each day; 2) maximum 1-hour average for the month; and 3) the annual mean.

**Meteorological Instruments**

The purposes of the meteorological measurements at the Pechanga air station are to provide local information to the Tribe and to assist in providing characterizations of regional-scale meteorological patterns in conjunction with the air quality measurements.

The station uses the Vaisala WXT520 equipment to collect meteorological data for data validation. The equipment uses specific data collection and analysis methods. They are as follows:

**For wind speed:** the WXT520 uses Vaisala WINDCAP® sensor technology in wind measurement. The wind sensor has an array of three equally spaced ultrasonic transducers on a horizontal plane. Wind speed and wind directions are determined by measuring the time it takes the ultrasound to travel from each transducer to the other two. The wind sensor measures the transit time (in both directions) along the three paths established by the array of transducers. This transit time depends on the wind speed along the ultrasonic path. For zero wind speed, both the forward and reverse transit times are the same. With wind along the sound path, the up-wind direction transit time increases and the down-wind transit time decreases. The wind speed is calculated from the measured transit times using the formula.

**For precipitation:** WXT520 uses Vaisala RAINCAP® Sensor 2-technology in precipitation measurement. The precipitation sensor is comprised of a steel cover and a piezoelectrical sensor mounted on the bottom surface of the cover. The precipitation sensor detects the impact of individual raindrops. The signals from the impact are proportional to the volume of the drops. Hence, the signal of each drop can be converted directly to accumulated rainfall. Advanced noise filtering technique is used to filter out signals originating from other sources than raindrops. The

measured parameters are accumulated rainfall, rain current and peak intensity, and the duration of a rain event. Detection of each individual drop enables computing of rain amount and intensity with high resolution. Precipitation current intensity, which is internally updated every 10 seconds, represents the intensity during the one minute period before requesting/automatic precipitation message sending (for fast reacting to a rain event, during the first minute of the rain event the intensity is calculated over the period rain has lasted in 10-second steps instead of fixed one minute). Precipitation peak intensity represents the maximum of the calculated current intensity values since last precipitation intensity reset.

**For pressure, temperature, and humidity measurement:** WXT520 uses the measurement principle of the pressure, temperature, and humidity sensors. Measurement is based on an advanced RC oscillator and two reference capacitors against which the capacitance of the sensors is continuously measured. The microprocessor of the transmitter performs compensation for the temperature dependency of the pressure and humidity sensors.

### **Data Availability**

Data is submitted to EPA through the AQS and the data can be accessed through the system. The Pechanga Environmental Department has the data accessible to Pechanga Tribal members upon request.

### **Monitoring Objectives.**

The ambient air monitoring networks must be designed to meet three basic monitoring objectives. These basic objectives are listed below. The appearance of any one objective in the order of this list is not based upon a prioritized scheme. Each objective is important and must be considered individually:

- (a) Provide air pollution data to the general public in a timely manner. The Pechanga Air program makes their data available through AQS. The data are uploaded into the AQS quarterly.
- (b) The Pechanga air program will work to capture data to meet compliance with NAAQS standards and emissions strategy development. Data from monitors of various types can be used in the development of attainment and maintenance plans.
- (c) The Pechanga Air Program submits information to AQS which can be accessed for the purpose of support for air pollution research studies.

## **Detailed Site Information**

### **Site Name: Pechanga**

The Pechanga ambient air monitoring station was established in the spring of 2008 in order to represent neighborhood-scale air quality. It is located at the Pechanga Government Center. On April 3, 2015 EPA designated the Pechanga Reservation as a separate air quality planning area for the 1997 8-hour ozone National Ambient Air Quality Standard (NAAQS).

### **Recent or Proposed Changes**

The Pechanga Air Program anticipates continuing the current program that is in place. The program will continue to monitor and maintain the level of technical and professional proficiency as a newly designated separate air quality planning area for the 1997 8-hour ozone NAAQS.

In 2015, the air program had three analyzers replaced and the datalogger. The Ozone, NO<sub>2</sub>, PM<sub>2.5</sub> analyzers and Wincollect datalogger were replaced with new equipment due to age and failure of existing units. The program has all new analyzers properly running, calibrated, and collecting data on the new datalogger.

#### Changes in 2015:

- Ozone analyzer Ecotech EC9810 has been replaced with the current Thermo Scientific Model 49i
- PM<sub>2.5</sub> FRM analyzer Thermo Scientific Partisol Model 2000 has been replaced with the current Thermo Scientific Partisol Model 2000i
- NO<sub>2</sub> analyzer Ecotech EC 9841B has been replaced with the current Teledyne Model T200
- The Wincollect Datalogger has been replaced with the current Agilaire Datalogger.

There are no anticipated changes to the air station in the upcoming year. The Pechanga air program will continue to monitor and maintain the equipment and data; the program will be evaluated annually to comply with federal regulations and other regulations that may apply.

**Table 6: Pechanga Air Network Site Information**

Site Name	Pechanga			
AQS ID	TT-586-0009			
GPS coordinates	33°26'52.37"N 117° 5'19.30"W			
Location	Pechanga Government Center, Pechanga Reservation			
Address	12705 Pechanga Road, Temecula, CA 92593			
Counties	Riverside and San Diego			
Distances to roads	Pechanga Road: 57meters Pechanga Parkway: 1,075 meters Pala Road: 608 meters I-15: 4.6 kilometers			
Traffic counts	Pechanga Road: no data (road is within Reservation) Pechanga Parkway: 13,230 ADT (2014 data) Pala Road: 8,500 ADT (2014 data) I-15: 133,000 ADT (2013 data)*			
Groundcover	Paved from east to north; vegetated from south to west			
Representative Area	Pechanga Band of Luiseño Indians Reservation- Riverside and San Diego County, Temecula, CA Suburban/Rural.			
Pollutant, Parameter Occurrence Code (POC)	<b>Ozone</b> 1	<b>PM<sub>2.5</sub></b> 1	<b>PM<sub>2.5</sub> FRM</b> 2	<b>NO<sub>2</sub></b> 1
Primary / QA Collocated / Other	Primary	Primary	Collocated	Primary
Parameter Code	44201	88101	88101	42602
Site Type	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitor Type	SLAMS	SLAMS	QA Col	SLAMS
Network Affiliation	Pechanga	Pechanga	Pechanga	Pechanga
Method Code	091	170	116	090
FRM / FEM / ARM / Other	N/A	N/A	FRM	N/A
Collecting Agency	Pechanga Band	Pechanga Band	Pechanga Band	Pechanga Band
Analytical Lab	NA	N/A	RTI International (RTI) 3040 East Cornwallis Road P. O. Box 12194 Research Triangle Park, NC 27709	NA
Reporting Agency	US EPA	US EPA	US EPA	US EPA
Spatial scale	Neighborhood	Neighborhood	Neighborhood	Neighborhood
Monitoring Start Date	2008	2008	2008	2008
Current Sampling Frequency	Hourly	Hourly	1 in 6	Hourly
Sampling method	Photometric EQOA-0193-091	Beta Attenuation EQPM-0308-170	Beta Attenuation EQPM-0308-170	Chemiluminescent RFNA-1292-090
Analysis method	N/A	N/A	N/A	N/A
Start date	June 9, 2008	August 12, 2008	August 12, 2008	July 25, 2008
Operation schedule	Continuous	Continuous	1 in 6 coll	Continuous
Sampling season	Year round	Year round	Year round	Year round
Probe height	9 meters	9 meters	9 meters	9 meters
Distance from supporting structure	1.3 meters	1.3 meters	1.3 meters	1.3 meters
Distance from obstructions on roof	16 meters	16 meters	16 meters	16 meters
Distance from obstructions not on roof	50 meters	50 meters	50 meters	50 meters
Distance from trees	50 meters	50 meters	50 meters	50 meters

Ambient Air Monitoring Network Plan  
July 2016

Distance to furnace or incinerator flue	N/A	N/A	N/A	N/A
Distance between collocated monitors	N/A	N/A	1 meter	N/A
Unrestricted airflow	360°	360°	360°	360°
Probe material	Teflon	Teflon	N/A	Teflon
Will there be changes within the next 18 months?	No	No	No	No
Is it suitable for comparison against the annual PM <sub>2.5</sub> ?	N/A	Yes	No	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	Monthly	Monthly	N/A
Frequency of one-point QC check (gaseous)	bi-weekly	N/A	N/A	bi-weekly
Last Annual Performance Evaluation (gaseous)	12/16/15	N/A	N/A	12/16/15
Last two semi-annual flow rate audits for PM monitors	N/A	45/13/15 12/17/15	N/A	N/A

Site Name	Pechanga			
<b>Meteorological</b>	<b>Wind Speed</b>	<b>Wind Direction</b>	<b>Ambient Temp</b>	<b>Rel. Humidity</b>
Manufacturer	Vaisala	Vaisala	Vaisala	Vaisala
Model	WXT520	WXT520	WXT520	WXT520
Range	0.4 to 50.0 m/s	000 to 360°	-10.0 to 50.0°C	0-100% RH
Analysis method	Automatic Sensor and Formulation	Automatic Sensor and Formulation	RC Oscillator	RC Oscillator
Start date	April 27, 2015	April 27, 2015	April 27, 2015	April 27, 2015
Height above ground	11 meters	11 meters	9 meters	9 meters
Vertical distance from supporting structure	3.3 meters	3.3 meters	1.5 meters	1.5 meters
Horizontal distance from supporting structure	N/A	N/A	N/A	N/A
Distance from obstructions on roof	16 meters	16 meters	16 meters	16 meters
Distance from obstructions not on roof	50 meters/ SW	50 meters/ SW	50 meters/ SW	50 meters/ SW
Unrestricted airflow	360°	360°	360°	360°

Site Name	Pechanga			
<b>Meteorological</b>	<b>Precipitation</b>	<b>Solar Radiation</b>	<b>Pressure</b>	
Manufacturer	Vaisala	Middleton	Vaisala	
Model	WXT520	SK01-D2	WXT520	
Range	N/A	0 to 1400 wt/m <sup>2</sup>	600 to 800 mm Hg	
Analysis method	Automatic Sensor and Formulation	Differential thermopile	RC Oscillator	
Start date	April 27, 2015	April 27, 2015	April 27, 2015	

Height above ground	8 meters	8 meters	5 meters	
Vertical distance from supporting structure	3.3 meters	3.3 meters	1.5 meters	
Horizontal distance from supporting structure	N/A	N/A	N/A	
Distance from obstructions on roof	16 meters	16 meters	16 meters	
Distance from obstructions not on roof	16 meters	16 meters	16 meters	
Unrestricted airflow	360°	360°	360°	

\*2015 Traffic counts are not available at time of report.

**Appendix A – Public Comment**

# Pechanga Tribal Government

## *Pechanga Environmental Department*

P.O. Box 1477 Temecula, CA 92593 (951) 770-6000

# PUBLIC NOTICE

---

The Pechanga Environmental Department, on behalf of the Pechanga Tribal Government, has updated the Tribe's Annual Air Network Plan for 2016. The Air Network Plan provides technical information on how air data is collected, analyzed, and stored at Pechanga's air station. As part of compliance with the Clean Air Act (CAA) Pechanga Environmental Department will be accepting public comments on the Plan for 30 calendar days, commencing **May 25, 2016** and closing **June 23, 2016 at 5:00 pm.**

To obtain a copy of the Annual Air Network Plan, please request a copy from the front desk of the Pechanga Government Center. Copies of this document will also be on file in the Pechanga Environmental Department and available on request, and also available as a portable document file (pdf) download from Pechanga's website ([www.pechanga-nsn.gov](http://www.pechanga-nsn.gov)).

All comments must be made in writing and can be submitted via email (PTG\_Environmental@pechanga-nsn.gov), via standard mail (P.O. Box 1477, Temecula, CA 92593, ATTN: Pechanga Environmental Department), or delivered in person to the front desk of the Pechanga Government Center (ATTN: Pechanga Environmental Department).

Please note that the Pechanga Government Center is open from **8:00 am-5:00 pm Monday through Friday**, excluding holidays.

For questions or comments regarding this notice, please contact:

Pechanga Environmental Department  
Kelcey Stricker, Environmental Director  
(951) 770-6153  
[kstricker@pechanga-nsn.gov](mailto:kstricker@pechanga-nsn.gov)