



MORONGO BAND OF MISSION INDIANS TRIBAL AIR PROJECT

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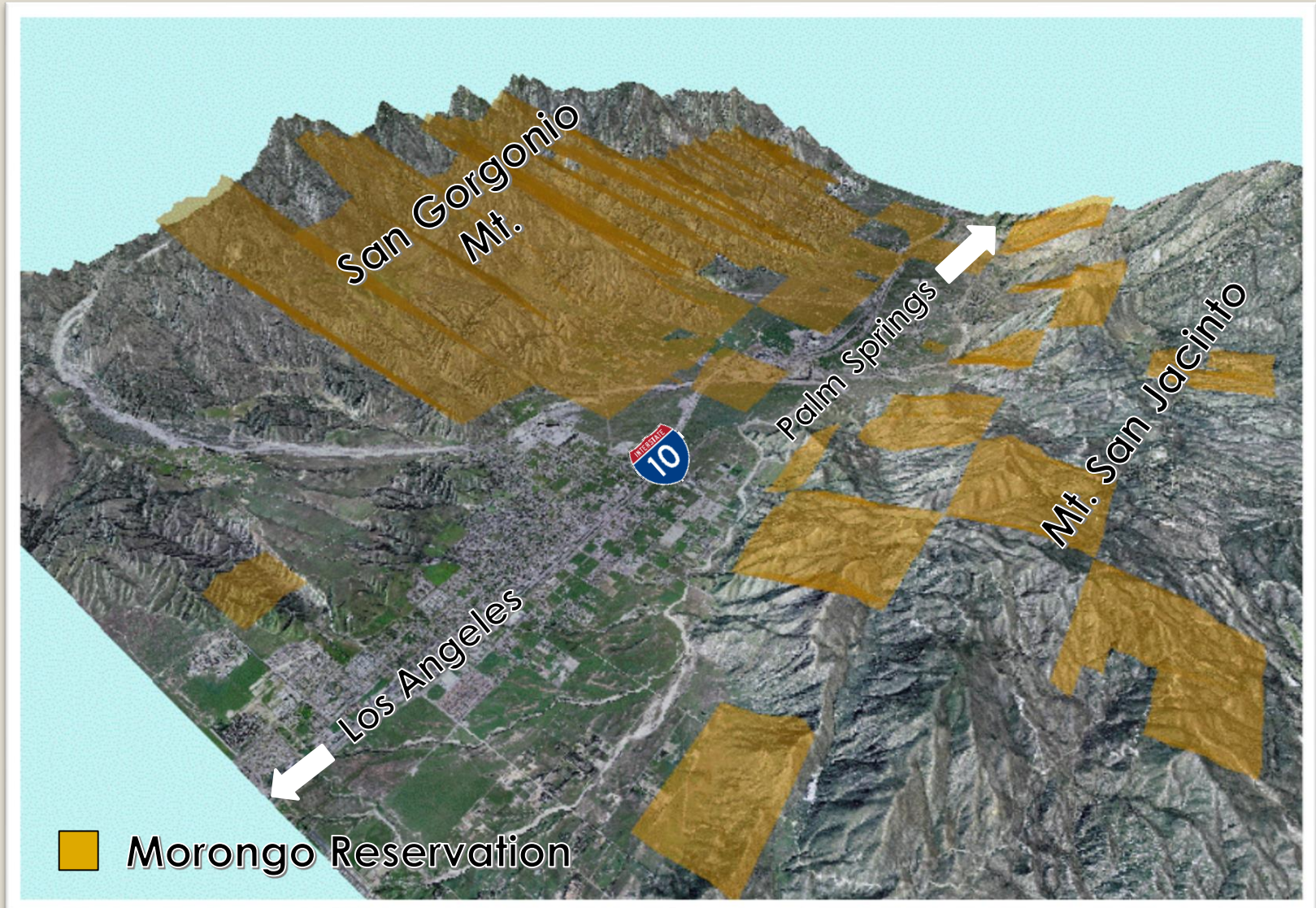


Morongo Reservation



Sources: Esri, DeLorme, USGS, NPS, Sources: Esri, USGS, NOAA

Basin Topography



Some Components of Morongo's TAP using 103 Grant



- **Monitoring**
 - Emission Inventory
 - Air Monitoring (indoor/outdoor)
- **Data Management**
 - Data Analysis
- **Policy and Procedure**
 - Quality Assurance and Quality Control Reports
 - Treatment as a State (TAS)
 - Standard Operating Procedures (SOP)
 - TSA
 - Annual Network Plans
- **Compliance**
 - Operating permits
 - Tribal Ordinances
- **Public Education/Outreach program**

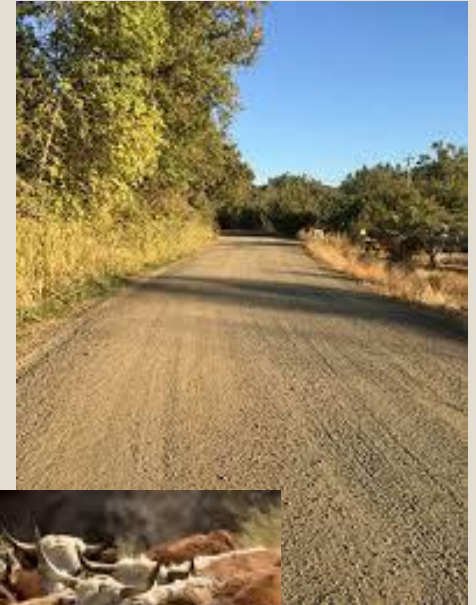
How did Morongo get here using the 103 Grant

- What is Morongo's Air Quality? The Good, the Bad, the Ugly
- Basic investigation
 - EPA Green Book - what is our area's NAAQS DESIGNATION?
 - National Emissions Inventory Database – what are those polluting sources nearby?
 - What is our meteorological history?
- Mock emissions inventory
 - Reservation – “windshield survey” around the reservation
 - Locally – Google search, news articles, word of mouth

What did we find?

National Ambient Air Quality Standards	Southeast Desert Basin <i>Before 11/6/2003</i>	South Coast Basin <i>After 11/6/2003</i>
CO	Unclassifiable	Serious
Ozone	Severe-17	Extreme
Particulate Matter (PM ₁₀)	Serious	Serious
Nitrogen Oxides (NO _x)	Unclassifiable	Maintenance
Sulfur Dioxide (SO ₂)	Unclassifiable	Unclassifiable
Lead	Attainment	Attainment

Sample Emission Sources On Morongo Reservation



Sample Emission Sources Off Reservation



What are your resources?



- Staff – what are our weaknesses and strengths?
- Training/education
- Support
- Tools/Technology
- Time
- Money
- Tribal Council



Morongo TAP Goals/Objectives



Make short and long term goals

- What are other tribes doing?
 - What can you learn that has already been done?
 - Can you partner up?
- Establish long term goals and objectives
 - 10 years plans
 - 5-year plans
- Taking those plans and making them short term goals
 - **Annually – how can you tackle these plans in small chunks with the staff you have now – this is how we structure our 103 grant every year!**
 - Maintain a working collaboration with your staff
 - Keep communication open with PO
 - Keep Tribal Council in the loop
- Revisit 5/10-year plans

Morongo's 103 Grant Project

MORONGO BAND OF MISSION INDIANS CLEAN AIR ACT 103 FY 20 GRANT WORK PLAN

EPA Strategic Plan (2014-2018) Goal 1 - Deliver real results to provide Americans with clean air, land, and water; Objective 1.1 – Improve Air Quality			
Responsible Staff: Environmental Manager (EM), Environmental Specialist II – Tribal Air Program (ESII), Environmental Specialist I (ES), Administrative Assistant (AA)			
Task	Program Administration Component	Outputs/Deliverables and Target Due Dates	Staff
Task 1	Capacity Building for the Environmental Department Tribal Air Program: \$5,545 (Personnel: \$3,985; Fringe \$996; Supplies \$564; FTE: .092)		
	<i>Environmental Outcomes</i> – A capable and valid Tribal Air Program provisioned under Section 301(d) of the CAA <i>Objectives:</i> 1.1 Purchase general office supplies to support all program tasks including paper, pens, log books, binders, duplication, and other general office supplies. 1.2 Develop program binder outlining procedures including SOP's, examples, methods, and requirements. 1.3 Maintain SOP index and routinely review SOPs for quality assurance. 1.4 Maintain grant budget and process invoices.	Progress reported in quarterly reports: • Office/program supplies software- On-going • Copies of SOP's – Quarterly • Budget Summary - Quarterly	ES I: 40 hrs ES II: 40 hrs AA: 112 hrs
Task 2	Monitoring Program for Ozone, PM 2.5, NOx, and weather: \$55,748 (Personnel: \$30,646; Fringe \$7,662; Supplies \$8,440; Contractual EPA In-Kind \$3,000; Contractual: \$5,200; Training: \$800; FTE: .652)		
	<i>Environmental Outcomes/Results</i> --Knowledge of air quality and legally defensible data, leading to strategic and management plans <i>Objectives:</i> 2.1 Routine site operations-operate, maintain, calibrate, & conduct repairs on monitoring equipment 2.2 Schedule/ perform NPAP audit for tribal ozone monitors and NPEP audit for tribal PM monitors 2.3 Data management - download, catalog, summarize 2.4 Data reporting to AQS and AQS data certification 2.5 Revise and submit Annual Monitoring Network Plan 2.6 Continue to review/revise QAPP Volume I Ambient Air Quality Monitoring Program, as needed (continued from 2019) 2.7 Review/Revise QAPP Volume IV Meteorological Monitoring. Submit to EPA for review/approval. 2.8 Deploy/maintain mobile air station equipment and data. 2.9 Continue TSA corrective action plan development and implementation. 2.10 Coordinate/ transport ozone transfer standard to CARB for certification (1x year) 2.11 Routine travel to support monitoring program.	Progress reported in quarterly reports: • Copies of checklists/maintenance records & audits - Quarterly • Audit results – annually • Design values for O3/PM/NOx- Yearly • Data submitted to AQS- Quarterly • Monitoring Network Plan – Submitted by July 1 • QAPP Vol I – Complete revisions by Jan 2020; approval based on EPA review • QAPP Vol IV – Complete revisions by Aug 2020; approval based on EPA review • Photos and reports for mobile air station deployment – as completed • TSA corrective action and summary of implementation – as completed	ES: 658 hrs ESII: 504 hrs AA: 194 hrs

Challenges

- Staffing – turnover
- Time
- Wearing multiple hats
- Knowing our limitations

How we Prevail

- Make a list, prioritize AND communicate
- Didn't change plans, just the route we took

GAP vs. 103 vs. 105

- GAP – Promotes community awareness and involvement in the pollution prevention program, tribal air program, and the department
- 103 – Dedicated to Air Quality projects
- 105 – Usually mature air programs with TAS, 5% funding match, secured funding

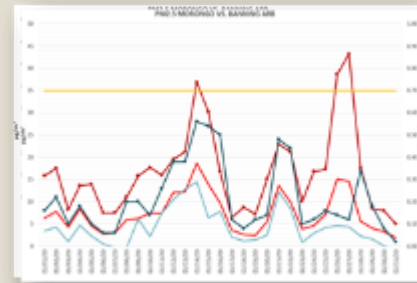
Morongo103 in ACTION:

Station Name	Station ID	Station Type	Station Status
San Jacinto Valley	103	Background	Active
San Jacinto Valley	104	Background	Active
San Jacinto Valley	105	Background	Active
San Jacinto Valley	106	Background	Active
San Jacinto Valley	107	Background	Active
San Jacinto Valley	108	Background	Active
San Jacinto Valley	109	Background	Active
San Jacinto Valley	110	Background	Active
San Jacinto Valley	111	Background	Active
San Jacinto Valley	112	Background	Active
San Jacinto Valley	113	Background	Active
San Jacinto Valley	114	Background	Active
San Jacinto Valley	115	Background	Active
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San Jacinto Valley	118	Background	Active
San Jacinto Valley	119	Background	Active
San Jacinto Valley	120	Background	Active

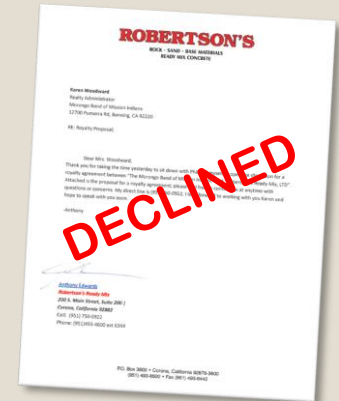
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MORONGO BAND OF MISSION INDIANS
ENVIRONMENTAL PROTECTION ORDINANCE

12B - ENVIRONMENTAL CODE - Part 2

AIR QUALITY PROTECTION CODE!

Approved December 1, 2010



Morongo's Future

- Regulatory monitoring for PM2.5 and NO2
- TAS
 - 105 and various other sections of the CAA/ eventually TIP
- Upgrading weather stations
- Upgrading data logging system
- Working with local Tribes to create PQAQO
- Expanding our outreach to social media
- Purchase portable/mobile sensors
- Develop further Tribal Ordinances to control air pollution
- Build employee AQI alert system

Questions/Comments?



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