

Results of Field Audits from IMPROVE network samplers

Presented at Annual IMPROVE Steering Committee
Meeting 10/22-223/2019

Petaluma, CA

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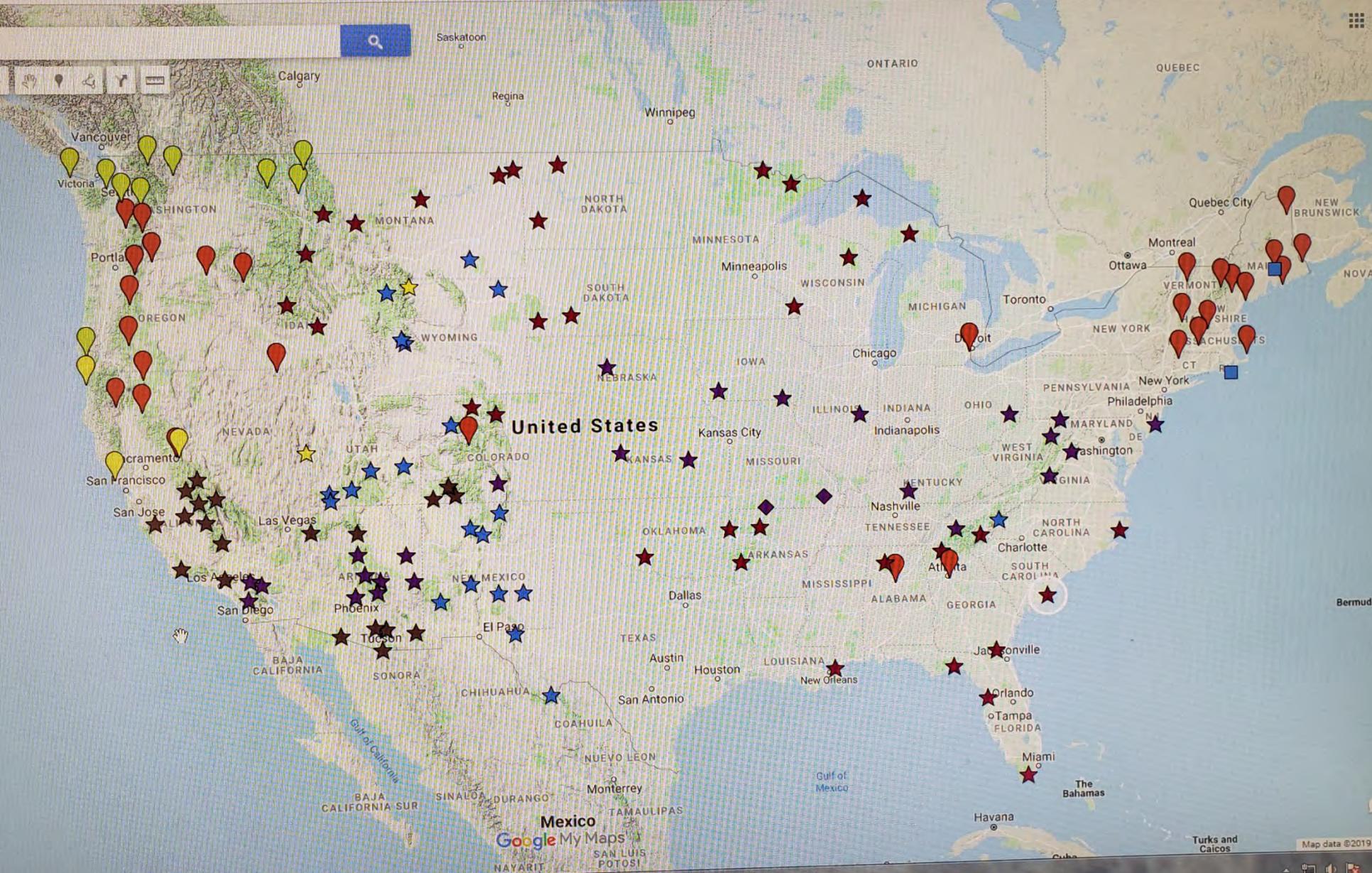
Review what audits entail

General site overview – measure ambient background conditions

Document observations with photos

Sampler/stand integrity

Sampler flow rates



Chiricahua National Monument, AZ

All systems pass

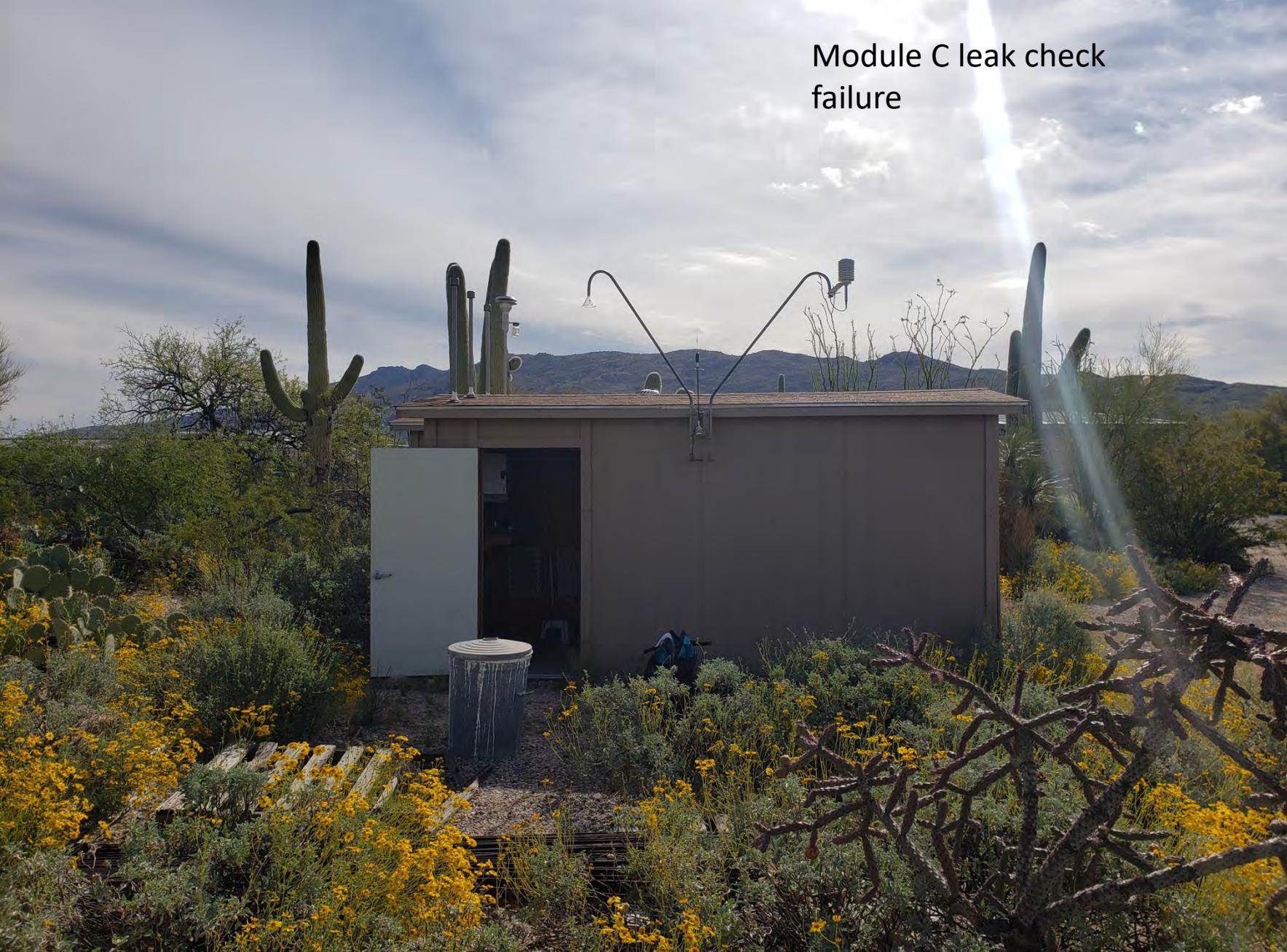


Nogales, AZ

All systems pass



Module C leak check failure



Saguaro West, AZ

Module B leak check and flow rate failed
Module C leak check failed





San Gabriel, CA

All systems pass.



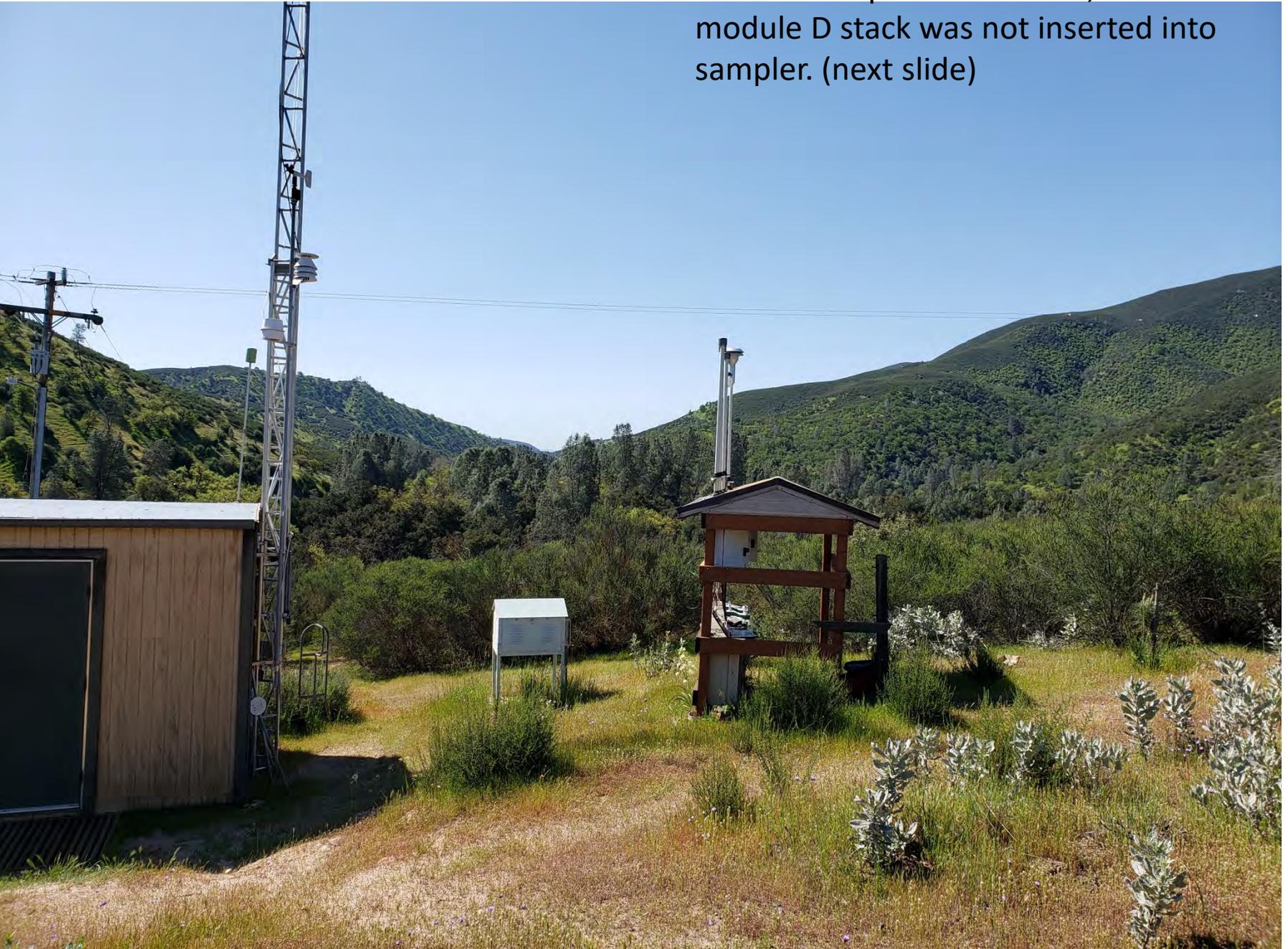
San Rafael, CA

All module pass; shelter is showing its age, tree in the background needs to be trimmed



Pinnacles National Park, CA

All modules pass flow check, however
module D stack was not inserted into
sampler. (next slide)



Stack not inserted



Stack inserted properly



Fresno, CA

Everything passed inspection



Other measurements at Fresno, CA



Sequoia National Park, CA

All systems pass.



Kaiser/ Sierra National Forest, CA (China Peak Ski area)

Module B flow rate fail (20.1 lpm is
10% < nominal flow rate of 22.8 lpm)

Photo taken from snow
bank (about 10 ft deep)





Hoover Wilderness, CA

Everything passed.



Mono Lake reflections from Hoover IMPROVE site



Owens Valley, CA

Everything passed.



Domeland Wilderness, CA

Everything passes, however, there is a large (football field size area) which has been freshly graded. Dust impact?



Meadview, AZ

Module A flowrate is borderline failure low.
Module C leak check failed.





Mesa Verde, CO

All sampler systems pass. Tree needs trimmed.

Trim this tree



Shamrock Mine



They rebuilt the stand at WEMI1
– it's much better.



Fall Audit trip

North Absaroka - audit and training for Steve Mugg



Flat Head – slash burning



Glacier NP



Cabinet Mnts, MT – samplers are not operating at ambient conditions.



Pasayten – Loup Loup ski area –
building new cell tower site



North Cascades, WA



Puget Sound, WA





Makah Tribe WA



Olympic NP, WA
Mod. A and C failed leak check



Kalmiopsis, OR



Redwoods, CA



Point Reyes, CA
Module C leak check failed
MxVac passed

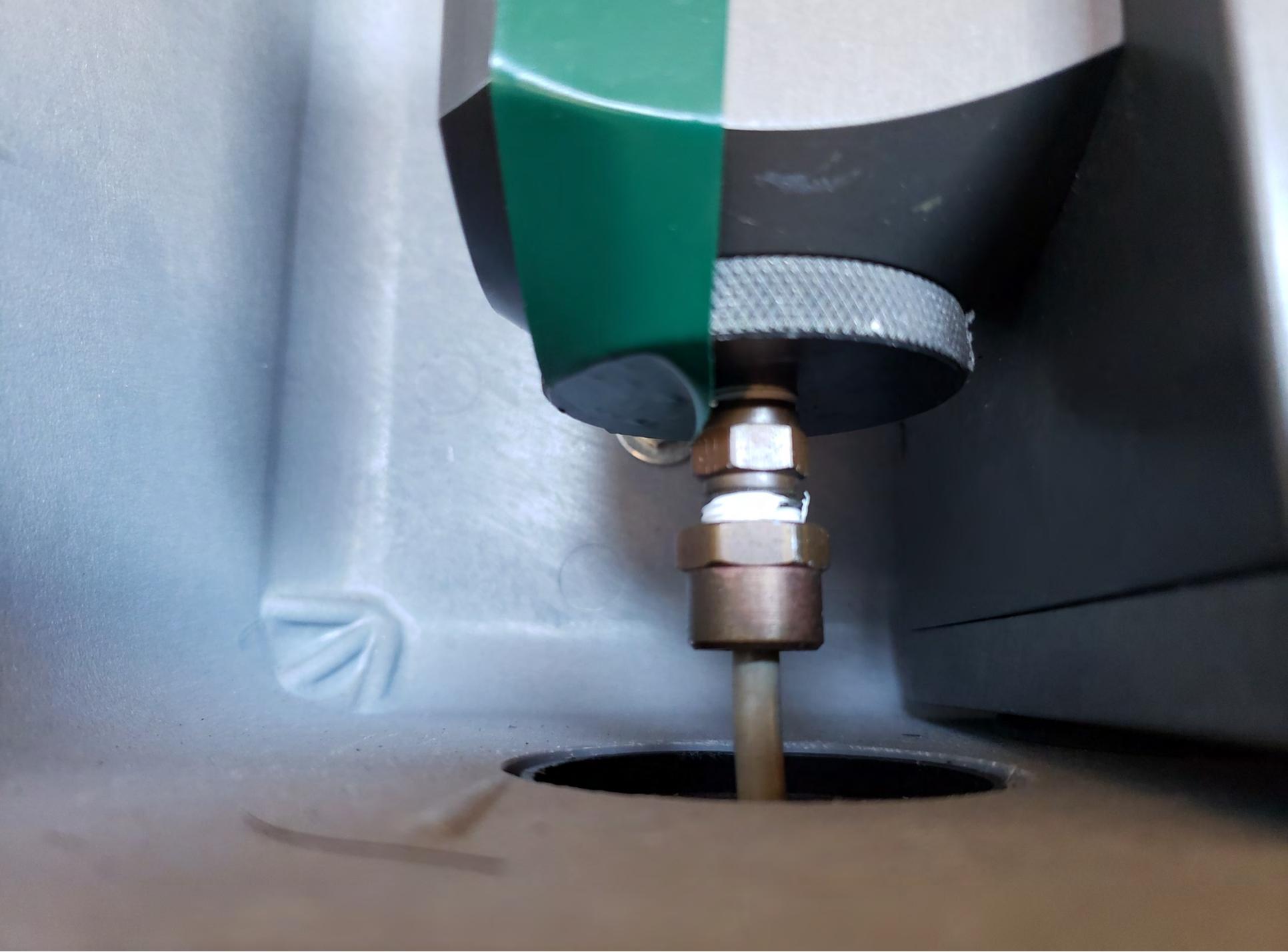


01-HEBE

Insert Stack
up To This Label







Operator comments

San Gabriel operator

Due to lack of man power across the entire forest service fire staff has been helping out in other areas. I am a volunteer doing the IMPROVE SITE. I go up to assist when and where I can. My supervisor is aware if this and does not have an issue with it. However, it is his opinion that IMPROVE is not my job. If anything else comes up such as projects, meetings, training or fire assignments I am expected to take of these over the IMPROVE Site. My supervisor is fully aware of the importance of the IMPROVE site. I believe that if my supervisor was made aware of just how important the site was he may be a little more understanding when I ask to go take care of the filters.

Domeland operator

At This time I am the only site operator. That makes it difficult at times.

Purple Air Sensors





Questions/comments?