

Ozone Maintenance

Presented by

David Bumgardner



Site Preparation

- Inspect & replace ¼ “ Teflon sample tubing
 - What to inspect for...
 - Cracks / holes
 - Bugs (spiders, webs, hornets, etc..)
 - No blockage in tubing or damage
 - Sample line is clean, clear and free



Site Inspection

- Inspect sample cone, replace as needed
- Inspect Site for Wasp or Hornet's Nest
 - Remove before ozone season starts



Site Safety check

Are there any unusual odors when you enter the site?



Analyzer Check

- Check Sample Flow
 - Verify sample pump switch is **UP**
 - Look at rotometer on right (is the ball floating behind the 2?)
- Check Sample Frequency
 - Settings 41-46khz
- Check Control Frequency
 - Settings 50khz



Ozone Transfer Standard

- For nightly auto calibration of analyzer the Transfer Standard must be set as follows:
 - Auto / Manual switch to AUTO
 - Thumbwheel set to .090
 - OZONE LAMP Switch set to OFF
 - OZONE PUMP Switch set to OFF
 - MAIN Switch set to OPERATE
 - T/P Switch set to ON
 - VALVE Switch set to ON
 - SAMPLE PUMP Switch set to OFF



Troubleshooting

- If you have any problems, call the Air Lab for assistance. 360-407-6030
- Always check the power
 - Is there power at the outlet or site?
 - Is what you are troubleshooting plugged in?
 - Is the power switch ON?



Troubleshooting

- Analyzer is displaying significantly lower values than the Transfer Standard
 - Verify that the VENT cap is on the Transfer Standard securely
 - Check sample tubing connection
 - Verify the AUTO / MANUAL switch is in AUTO position



Troubleshooting

Transfer Standard's Ozone flow falls below 5 lpm

- Remove scrubber
- Make sure zero air scrubber is not plugged
- Adjust or turn knob on rotometer

No Flow Sample pump

- Check rotometer on right side monitor, turn the knob to ensure flow
- Check pump switch
- Verify the pump is operating

Call Lab if problem still exists



Troubleshooting

Call the Lab at 360-407-6030 if you have any of the following:

- No display
- Unstable readings on Transfer Standard



How to Contact the Lab

- Call David Bumgardner; (360) 407-6030
- Cell phone: (360) 349-1642
- Desk phone (360) 407-6978
- E-mail dbum461@ecy.wa.gov

