



### Cannabis Task Force - HMWP Inspection Checklist Notes

INSPECTOR NAME(S)			
DATE	TIME IN	TIME OUT	
<b>MEASUREMENTS (WRITE "N/A" IF NOT APPLICABLE)</b>			
O <sub>2</sub> %	CO <sub>2</sub> (PPM)	LEL %	CO (PPM)

	<b>CHECK ALL THAT APPLY</b>		
DBA	CULTIVATION	EXTRACTION	CO <sub>2</sub> > 200 CF
Address		Phone #	
Owner/Operator	E-Mail		

### ADMINISTRATIVE REQUIREMENTS

Requirement	Date Completed (Indicate N/A if not applicable)
Obtain a Hazardous Materials Certificate of Registration from DPH- HMWP	
Establish an account in the California Environmental Reporting System (CERS)	
Complete and submit a Hazardous Materials Business Plan (HMBP) to CERS	
Provide Hazard Communication training to all employees who handle hazardous materials; <b>AND</b> Provide Emergency Response Plan Training to all employees	
Obtain an EPA Hazardous Waste Generator ID Number if business operation generates hazardous waste	

### OPERATIONAL REQUIREMENTS

Requirement	Completed? Y/N or N/A
Conduct quarterly self-Inspections of all hazardous materials storage areas and maintain written records of the inspections	
Ensure all containers of hazardous materials are labeled with: 1) the name of the material; and 2) the appropriate hazard warning	
Ensure labels on hazardous materials containers are legible	

Ensure containers of hazardous materials are stored in a manner to prevent tipping over and/or inadvertent spills	
Maintain a spill kit on site	
Ensure all containers of hazardous waste are labeled with the words "Hazardous Waste; Name of Generator; Physical State of Waste and accumulation start date	
Ensure a hazardous waste determination is made prior to disposal of any hazardous or potentially hazardous material	

**RECOMMENDATIONS**

<b>Items in this section are BEST Management practices and may be enforced by other City Departments</b>	<b>Completed? Y/N or N/A</b>
Maintain Safety Data Sheets (SDS) for all hazardous materials stored at the site	
Keep spill clean-up materials readily available	
Store flammable materials in an approved "flammables" storage cabinet OR "flammables" safety can	
Safety cans and drums containing flammable liquids should be grounded and bonded when being used	
Containers of chemicals are stored below eye level	
Large bottles and containers are stored on shelves no higher than 5' from the floor	
Secondary containment provided for bulk liquid and hazardous waste storage	
Segregate acids from bases	
Segregate acids from flammable and combustible materials	
Segregate oxidizers from acids and flammable and combustible materials	
Compressed gas cylinders are secured against falling over	
Compressed gas cylinders are stored in a cool, dry place	
Empty gas cylinders are marked M-T or EMPTY and stored separately from full cylinders	
<b>For sites that use and store CO2:</b>	<b>Completed? Y/N or N/A</b>
CO2 sensors present and in current calibration	
CO2 alarms set for $\leq 5000$ ppm	
Ventilation exhaust within 12 inches of the floor	
Ventilation system operational and designed for negative pressure	

CO<sub>2</sub> Dräger Tube Instructions

Handle Used  
Tubes as HW

Must break both ends  
of the tube before using

**EN - Carbon Dioxide 0.1%/a (CH 23 501)**  
**Dräger Tube®**

**WARNING**  
The tube content is toxic. Do not swallow. Avoid skin or eye contact. Caution when opening the tube, glass splinters may come off.

**1 Application Range / Ambient Conditions**  
Determination of carbon dioxide (CO<sub>2</sub>) in air and technical gases.

Measuring range	: 0.5 to 6 Vol%	0.1 to 1.2 Vol%
	(Conditions of calibration: 20 °C, 50% r.h., 1013 mbar)	

Number of strokes (n) : 1                      5

Measuring time : approx. 30s                approx. 2.5 min

Standard deviation : ± 5 - 10 % (for the whole range of ambient conditions)

Color change : white → pale violet/blueviolet

Temperature : 0 °C (32 °F) to 30 °C (86 °F)

Humidity: ≤ 30 mg/L (corresp. 100 % r.h. at 30 °C/86 °F)

Correction factor: F = 1013 hPa (14.692 psi)/actual atmospheric pressure

**2 Principle of Reaction**  
CO<sub>2</sub> + amine → violet reaction product.

**3 Requirements**  
The Dräger tubes and the Dräger tube pumps work in a coordinated manner. Proper functioning of the tubes may be impaired when used with other pumps. **Observe the instructions for Use of the pump (Leak test!).** The measured value is applicable only to the place and date of measurement.

**4 Measurement and Evaluation**

**WARNING**  
All tips must be broken off, otherwise measuring is impossible. When inserting the tube, the arrow must point towards the pump.

1. Break off both tips of the tube in the Dräger tube opener.
2. Insert tube close to the pump. Arrow points towards the pump.
3. Suck air or gas sample through the tube.
4. Read the entire length of discoloration. Multiply the value by factor F for correction of atmospheric pressure.
5. Flush pump with air after operation.

1 ppm CO<sub>2</sub> = 1.8 mg CO<sub>2</sub>/m<sup>3</sup>  
1 mg CO<sub>2</sub>/m<sup>3</sup> = 0.56 ppm CO<sub>2</sub> (20 °C / 68 °F, 1013 hPa / 14.692 psi)

**5 Cross Sensitivities**  
No interference of the reading by 10 ppm hydrogen sulfide and 2 ppm sulfur dioxide.

**6 Additional Information**  
The package strip indicates order number, shelf life, storing temperature and serial number. State serial number for inquiries.

**NOTES:**

- 1) The CO<sub>2</sub> Dräger Tube has 2 scales: n = 1; and n = 5; where n is the number of pumps used to draw in the sample.
  - A) Range is 0.5 – 6.0 % by volume on the n = 1 scale
  - B) Range is 0.1 – 1.2% by volume on the n = 5 scale
- 2) When converting measurement to ppm keep in mind:
  - 0.1% = 1000 ppm
  - 0.5% = 5000 ppm
  - 1.0 % = 10,000 ppm
- 3) CO<sub>2</sub> in ambient air is approximately 400 ppm. Sensitivity of Dräger Tube is ≥1000 ppm
- 4) CO<sub>2</sub> is heavier than ambient air:
  - Molecular Weight of CO<sub>2</sub> is 44
  - Molecular Weight of ambient air is 29