



General Inspection Summary Report

Enter the PI's name in the space provided _____

Enter the building name, and the room numbers that were inspected _____

Enter the name of the person performing the inspection _____

Enter the date and time the inspection was performed _____

PI's signature (note: if the inspection was not performed by the PI, the signature indicates that the PI approves the inspection report). _____

LEAVE BLANK – To Be filled in by the safety committee as needed.

Inspection #: (GI- building name- yy/mm/dd)

Inspection # must be included as these will be referred to in the JOHSC meeting minutes for any actionable items. These numbers help provide a quick reference to date and building.

Procedure

- 1) Please leave this document in Word format.
- 2) Fill in the information in the section above
- 3) Fill in '**Table 1 Laboratory Inspection**' as you inspect the lab space, answering the questions as Y/N/NA (putting an X in place of the box is fine).
- 4) If a hazard is identified, you can try to fill in '**Description of Hazard**' boxes with the item number (column 1 from Table 1), a description of the hazard and the location. If you have questions or are unsure how to describe or categorize the hazard, contact Patrick Tamkee (tamkee@zoology.ubc.ca).
 - a. The safety committee will review inspection reports and comment on 'Recommended Actions' as needed.
 - b. If there is a serious hazard (e.g. incompatible chemicals stored together), it should be dealt with immediately. If there are urgent questions about how to deal with a specific hazard, please contact SRS (<https://srs.ubc.ca/contact-us/>). For less urgent concerns contact Patrick Tamkee (tamkee@zoology.ubc.ca).
 - c. Priority level for hazards can be assigned based on Table 3. If there are any hazards listed as A (High) or B (Moderate), please flag as "Urgent" when submitting to Isabel so they can be prioritized
- 5) The PI signs the document electronically (above) and submits to Patrick Tamkee (tamkee@zoology.ubc.ca).



Table 1. – Laboratory Inspection

Note: Laboratory personnel must be notified in advance that an inspection will be performed in their area. A laboratory staff member who is familiar and knowledgeable with the hazards of the research space must be involved in the inspection. Alternatively, this inspection may be performed internally but must be completed and submitted to the LST or JOHSC within one week of notification.

Building, labs inspected:

Inspector(s):

Date:

Item #	General Laboratory Hazards	Y	N	N/A
M-1	Is appropriate Personal Protective Equipment (PPE), such as lab coats, gloves and protective eyewear, available to all workers and is it being used?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-2	Is appropriate laboratory attire being worn (i.e. no shorts, skirts or sandals are present)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-3	Is the space free of evidence of food, drink, or chewing gum present in the lab, including lab garbage cans?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-4	Are fire extinguishers adequate for materials used, readily accessible, unobstructed, charged, and inspected within the last year? Is signage present (if not clearly visible)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-5	Are fire-alarm pull-stations accessible and are emergency exit doors unobstructed and functional?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-6	Are illuminated emergency exit signs visible and functional?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-7	Are emergency eyewashes accessible, unobstructed, functioning properly, and tested at least monthly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-8	Are emergency showers accessible, unobstructed and tested at least yearly by operations / facilities personnel?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-9	Are spill kits accessible, stocked and in working order? Are spill response and clean-up procedures and proper signage present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-10	Are aisles, fire exits, sprinklers, stairwells and electrical panels kept clear of materials, equipment, and spills?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-11	Are occupants aware of how to access first aid when needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-12	Are laboratory emergency contacts clearly posted?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-13	Are “No Eating/Drinking/Smoking” signs posted?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-14	Does door signage indicate the hazardous materials present in the lab?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-15	Are electrical cords in good repair (no exposed wiring) and adequately restrained? No electrical hazards present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-16	Have seismic issues been considered i.e. shelving secured, restraints, heavy items stored low?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-17	Do lab supplies (glassware, tubing, etc.) appear to be in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-18	Are lab areas, benchtops, sinks, fumehoods, etc. clean and tidy?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Joint Occupational Health and Safety Committee/Local Safety Team
General Inspection Checklist and Report

M-19	Do new staff receive workplace and task-specific orientations and are records kept?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-20	Are supervisors and workers aware of the requirement to have written procedures to ensure the safety of people working alone or in isolation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item #	Physical Hazards	Y	N	N/A
M-21	Is heating and ventilation adequate? (consider too hot, too cold)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-22	Is air quality adequate? (consider unfamiliar smells, odours)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-23	Are lighting levels in the work area adequate? (consider too bright/dim, lights not working)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item #	Ergonomic Hazards	Y	N	N/A
M-24	Are materials stored to prevent overreaching? Boxes on the floor are no more than 3 high? Is a step ladder available for out of reach items?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-25	Are workstations and seating at proper height?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-26	Do work areas allow for natural reaching without having to over-extend?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-27	Is assistive equipment and/or mechanical aid available and used for heavy/awkward items?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-28	Are there resources, known and available, to help workers address and prevent ergonomic issues such as overexertion, Musculoskeletal Injury (MSIs) etc?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item #	Chemical Safety	Y	N	N/A
M-29	Is the Chemical Safety manual readily available and easily accessible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-30	Is there less than 25 L of flammables in the open lab and in containers no larger than 5 L?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-31	Are fumehoods tidy, functional, and annually certified? Fumehood sashes are at/ below arrow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-32	Are gas cylinders properly secured, located away from doors & heat / ignition sources?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-33	Are there proper supplier and / or workplace labels on all containers (compliant with WHMIS 2015)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-34	Are all chemicals stored in proper containers/cabinets (not stored on floor)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-35	Are Safety Data Sheets (SDS) readily available, easily accessible and regularly updated (less than 3 years old)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-36	Is the Chemical inventory available and dated within the past 12 months?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item #	Biological Safety	Y	N	N/A
M-37	Is the Biological Safety Reference manual readily available and easily accessible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-38	Are biosafety cabinets kept tidy, functional, and annually certified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-39	Are Biosafety Permits posted in the space?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-40	Do the biohazardous waste containers have lids and are they labelled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item #	Radiation Safety	Y	N	N/A



M-41	Is the Radiation Safety Reference Manual readily available and easily accessible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-42	Are authorized personnel listed along with their UBC training certificates and lab specific training records in the records binder?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-43	Are Radioisotope Permits posted in the space? (Each Radioisotope Permit must be accompanied by a CNSC rules poster)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item #	Laser Safety	Y	N	N/A
M-44	Is laser hazard warning signage posted?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-45	Is the beam enclosed or have other provisions to prevent accidental exposure been implemented?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item #	Other	Y	N	N/A
M-46	Other issues:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item #	Peroxide Forming Chemicals	Y	N	N/A
M-47	Are peroxide forming chemicals present in the lab? ^a If so, on the next page, check any that are present in inventory or in solvents cabinets. DO NOT OPEN OR MOVE OLD CONTAINERS CONTAINING CLASS A or C PEROXIDABLE CHEMICALS. THEY CAN EXPLODE IF HANDLED. CONTACT SRS CHEMICAL SAFETY (https://srs.ubc.ca/contact-us/staff-directory/)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-48	Are peroxide forming chemicals labelled with date opened and checked for peroxide formation every three months?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item #	Old Chemicals Bottles	Y	N	N/A
M-49	Are there old chemical bottles of solid chemicals where the labels are deteriorating or appear to be in poor condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-50	Are there old solvent bottles? If yes, do not touch contact PI about handling and potential disposal.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item #	Perchloric Acid	Y	N	N/A
M-51	Is perchloric acid present in lab?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-52	Is the perchloric acid being used in procedures where it is being warmed and is this being done in the fume hood (other than specialized fume hoods for perchloric acid)? If yes, this must be addressed immediately.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item #	Nitric and Oxidizing Acids	Y	N	N/A
M-53	Are nitric or other strong oxidizing acids (e.g. perchloric acid, iodic acid, chromic acid) present in lab?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-54	Are oxidizing acids stored with incompatible organics (acetic acid, formic acid or organic solvents)? If yes, incompatible chemicals must be segregated immediately.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Item #	Picric Acid	Y	N	N/A
M-55	Is picric acid present in lab either in stocks or as a component of other solutions? DO NOT OPEN OR MOVE OLD CONTAINERS CONTAINING PICRIC ACID. THEY CAN EXPLODE IF HANDLED OR OPENED. CONTACT SRS CHEMICAL SAFETY (https://srs.ubc.ca/contact-us/staff-directory/)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-56	Picric acid in solutions (e.g. Bouins)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-57	Picric acid stock solutions?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item #	Lecture Bottles	Y	N	N/A
M-58	Are lecture bottles (small compressed gas cylinders) present in the lab?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-59	Are the labels intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
M-60	Do the valves and regulators appear to be in good condition (no evidence of corrosion)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item #	Other Issues	Y	N	N/A

^a Peroxide Forming Chemicals¹

Class A – Severe Peroxide Hazard Spontaneously decompose and become explosive with exposure to air without concentration.

Butadiene (liquid monomer)	Isopropyl ether	Sodium amide (sodamide)
Chloroprene (liquid monomer)	Potassium amide	Tetrafluoroethylene (liquid monomer)
Divinyl acetylene	Potassium metal	Vinylidene chloride

¹ From UBC Chemical Safety Manual



Class B – Concentration Hazard Require external energy for spontaneous decomposition. Form explosive peroxides when distilled, evaporated or otherwise concentrated. Old containers still pose a risk.

Acetal	Diethylene glycol dimethyl ether (diglyme)	4-Methyl-2-pentanol
Acetaldehyde	Diethyl ether	2-Pentanol (isopropyl alcohol)
Benzyl alcohol	Dioxanes	4-Penten-1-ol
2-Butanol	Ethylene glycol dimethyl ether (glyme)	1-Phenylethanol
Cumene	Furan	2-Phenylethanol
Cyclohexanol	Heptanol	2-Propanol
Cyclohexene	2-Hexanol	Tetrahydrofuran
2-Cyclohexen-1-ol	Methylacetylene	Tetrahydronaphthalene
Decahydronaphthalene	3-Methyl-1-butanol	Vinyl ethers
Diacetylene	Methylcyclopentane	Other secondary alcohols
Dicyclopentadiene	Methyl isobutyl ketone	

Class C – Shock and Heat Sensitive Highly reactive and can auto-polymerize as a result of internal peroxide accumulation. The peroxides formed in these reactions are extremely shock and heat sensitive.

Acrylic acid	Chlorotrifluoroethylene	Vinyl acetate
Acrylonitrile	Methyl methacrylate	Vinylacetylene (gas)
Butadiene (gas)	Styrene Vinylpyridine	Vinyladiene chloride
Chloroprene	Tetrafluoroethylene (gas)	Vinyl chloride (gas)



Item # (From the table Above)	Description of Hazard: <i>(specific location and/or equipment, nature of hazard- see Table 1)</i>	
Recommended Action: <i>(detailed action, taking account of hierarchy of controls, two or more options where appropriate)</i> <u>Do not fill in – Will be reviewed by the safety committee</u>		
Person Responsible:	Priority Level:	Target Date:



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Person Responsible:	Priority Level:	Target Date:



Table 1. Hazard Rating Descriptions/ Priority Table:

Priority Level	Timeline for Completion of Corrective Action	Timeline for Follow Up Inspection
A (High Risk)	Immediately: A moderate to high potential for serious injury or loss of life and/or extensive property damage or loss (structure, equipment or material).	Within 1-2 days
B (Moderate Risk)	As soon as possible: A moderate to high potential risk of causing a minor injury, illness or property damage or loss. (structure, equipment or material)	Within 1 week
C (Low Risk)	As soon as possible: A potential exists for causing a non-disabling injury or non-disruptive property damage.	Next regular inspection or further investigation required