



Safe Work Procedure

| Process/Equipment: Small vacuum line used for N ₂ O sampling | | Location : 18.203 or in the field | |
|---|---|--|--|
| Procedure Developed by : Stephen Parkes/ Stephen Wilson | | Approved by : | Date : 19/01/2005 |
| Referenced UOW Guidelines, legislation, codes of practice, Australian Standards etc: OHS114.2 Working with Hazardous Substances Guidelines | | | |
| Personal Protective Equipment Required (Check the box for required PPE) : | | | |
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| <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | | |
| Activity <i>(Steps in the process/task)</i> | Hazards Identified <i>(What could cause an injury)</i> | Risk Score <i>(How harmful is it)</i> | Controls <i>(What can be done to minimise the risk of injury)</i> |
| Removal of CO ₂ from sample (completed by pumping sample from glass trap through a drying tube containing ascarite). | Burns – Corrosive (Ascarite is NaOH on an inert support) | Low | Ascarite is enclosed to avoid user contact |
| Removal of H ₂ O from sample (completed by pumping sample through a glass trap submerged in a dry ice / ethanol mix (~-80°C)) | Asphyxiation (from evaporation of liquid nitrogen) | Low | Work in a well ventilated environment. |
| | Cold Burns (from contact with liquid nitrogen) | Low | Wear PPE. |
| | Contact hazard (from contact with dry ice) | Low | Wear PPE. Keep dry ice away from water. Use in well ventilated environments. |

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| Extraction of N ₂ O from sample (achieved by pumping sample through a glass trap submerged in liquid nitrogen) | Asphyxiation (from evaporation of liquid nitrogen) | Low | Work in a well ventilated environment. |
| | Cold Burns (from contact with liquid nitrogen) | Low | Wear PPE. |
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