Tip ...
Note down your waste disposal methods at the same time as your risk assessment details.

Environmental Management System (EMS)
Guide to Experimental Minesite Waste Disposal

Are the contents of the waste known?

Yes

Is the chemical or waste dangerous to handle in its current state?

Consider:
1. Will it react violently if in contact with air, water or moisture?
2. Will it explode/react if dropped?
3. Is the current packaging damaged?

Yes

No

Refer to EMS Website or talk to your Supervisor.
Website: www.pf.uq.edu.au/ems.html

There is no defined procedure for these types of waste. Each waste must be addressed on an individual basis.
- Refer to: http://www.brisbane.qld.gov.au/bccwr/lib85/permits_trade_waste_guidelines.pdf and/or
- Consult MSDS information for this chemical waste.
- Follow MSDS directions for correct disposal of waste.
- In addition to any other information given in MSDS, waste must also be handled as follows:
  1. Packaging labelled with appropriate dangerous goods diamond.
  2. Contents and concentration listed.
  3. Name of person and generating department listed.

For further information, view website at: http://stores.bacs.uq.edu.au. For queries or assistance only email: chemwaste@uq.edu.au.

Select from the waste categories on Page 2:
- Chemical Waste
- Rock Waste
- Maintenance (Workshop) Waste
- Radioactive Waste

For General Waste and Recycling procedures - refer to website above.
Environmental Management System (EMS)
Guide to Experimental Minesite Waste Disposal

Waste Streams

Chemical Waste
Any waste of a chemical nature that has the potential to pose a chemical threat to health, safety and/or the environment, or is chemically hazardous.

Scope:
- Sewerable chemicals
- Inert solids
- Collection of non-sewerable liquid wastes
- Collection of non-sewerable solid wastes
- Labelling chemical wastes
- Waste Manifests
- Collection procedures
- Common wastes in the work area.

Rock Waste
Rock Waste including metal ore fines.

Scope:
- Helidon Sandstone
- Marble
- Granite
- Radioactive rock waste
- Waste rock containing heavy metals or asbestos.

Maintenance (Workshop) Waste
Maintenance (Workshop) Waste.

Scope:
- Oil and Grease
- Scrap metal
- Batteries
- Obsolete Plant and Equipment
- Timber offcuts
- Building materials.

Radioactive Waste
Wastes which because of their radioactive content may require specific management arrangement.

Scope:
- Solvent-based liquid scintillants
- Water-based liquid scintillants
- Radioactive glass and vials
- Dry materials (including contaminated clothing)
- Chemical reagents.

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Chemical Waste

Is it liquid?

Yes

Is it sewerable?
and/or check with your Supervisor and/or risk assessment details

Website to request chemical waste containers and subsequent chemical waste collection is: http://stores.bac.uq.edu.au
Check container has appropriate label printed and attached.
Ensure only one ‘individually generated’ waste is placed in each container.
Print in pencil on the label:
1. Concentration of each ingredient.
2. Generator’s name, phone number and department.
3. Storage and handling obligations.
4. Date.
For queries and assistance only, email: chemwaste@uq.edu.au.

No

Yes

Dispose of sewerable waste down chemical sinks.
Flush with sufficient water to ensure no trace of chemical remains (leave tap on for 1-2 mins minimum).
Ensure sufficient dilution.
Rinse and deface chemical winchesters and place in marked brown waste bin which goes out as general waste.

No

Is it sewerable?
and/or check with your Supervisor and/or risk assessment details

Dispose of sewerable waste down chemical sinks.
Flush with sufficient water to ensure no trace of chemical remains (leave tap on for 1-2 mins minimum).
Ensure sufficient dilution.
Rinse and deface chemical winchesters and place in marked brown waste bin which goes out as general waste.

No

Package waste in appropriate and suitable container.
All packaging should be labelled with:
1. Concentration of each ingredient.
2. Generator’s name, phone number and department.
3. Storage and handling obligations.
4. Date.
Email University Chemical Store to arrange collection of waste at: chemwaste@uq.edu.au.

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**Rock Waste**

**Do the rock samples originate from outside Australia...**

- **Yes**
  - Rocks are received with a declaration from the client specifying the rock type and the quantity of contaminants. All rocks imported are cleared by customs before being delivered to the Mine.

- **No**
  - Rocks received originate within Australia.

**General Rock Waste**
- Waste retained in skip until reasonable quantity for disposal. Disposed of via waste contractor.

**Environmentally Sensitive Waste**
- Rock is contaminated with lead, zinc, arsenic or chemical.
  - Waste retained in skip until reasonable quantity for disposal.

**Asbestos Contaminated Waste**
- If contaminated waste is above 5% of the capacity of the container it is to be treated as a regulated waste. See EPA Waste Regulation 2000 S17 (4) for further information.
  - 1. Package & send back to client
  - 2. Dispose of via a licensed contractor

**Radioactive Rock**
- Package & send back to client

**Tip**
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Guide to Experimental Minesite Waste Disposal

Maintenance (Workshop) Waste

Is it Maintenance (Workshop) Waste?
Typical waste includes hydrocarbons such as oils and grease, detergents, batteries, scrap metal, obsolete plant and equipment, timber off cuts, and building materials.

Yes
- Refer to Chemical Waste guide.

No
- Chemical Waste
- Rock Waste
- Maintenance Waste
- Radioactive Waste

Is it chemical waste?
- Has the waste or material been mixed or contaminated with chemicals?
  - Yes
    - Tightly seal container.
    - Place it in a dedicated area for collection.
    - Contact the University Chemical Store to arrange collection.
  - No
    - Place into appropriate container for reuse or recycling or into general waste.

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Radioactive Waste
for rock waste refer to Rock Waste procedure

Solid

Liquid

Solvent-based

Water-based

Yes

No

Glass, paper and other dry materials:
Dispose of as clinical waste or general waste as appropriate.

Go to Clinical Waste, Page 4

Solvent-based Liquid:
Dispose of as non-sewerable liquid through the chemical waste system.

Go to Chemical Waste, Page 3.

Below levels given in the Radiation Safety Regulation 1999 S10(4)
If not sure contact your Department’s Radiation Safety Officer.

Store until activity is below applicable Reg level OR increase dilution to below regulatory levels.
When storing, container must state:
• isotope
• date for safe disposal
• contact
• chemical content/nature of any additional hazard.

Sewerable Liquid
♦ Dispose of to designated sink under supervision of Radiation Safety Officer.
♦ Ensure scintillant is diluted to such that it is at a safe disposal level.

Tip
Note down your waste disposal methods at the same time as your risk assessment details.