





GUIDELINE FOR WASTE SAMPLE PREPARATION

The purpose of the guideline is to assist customer of 5E Resources Sdn Bhd to safely prepare scheduled waste samples that are intended to send to 5E Resources Sdn Bhd for analysis & quotation requisition purpose. This guideline is only meant for reference, 5E Resources Sdn Bhd shall not be held responsible for any accident happened during the sampling process.

1. Type of container to be used

There are 4 common type of container that can be used for sampling purpose as per shown in table 1:

| No | Container type | Photo | Suitable waste | Recommended quantity* |
|----|-----------------------|---|---|-----------------------|
| 1 | Plastic sample bottle |  | acid, alkaline waste, wastewater | 1 liter |
| 2 | Glass sample bottle |  | acid (except hydrofluoric acid), alkaline, solvent, oil, oily sludge, solid waste | 1 liter |
| 3 | Metal container |  | solvent & paint waste | 1 liter |
| 4 | HDPE sample bag |  | solid waste (solid waste that is not corrosive & do not contain solvent) | 500g – 1 kg |

* In certain circumstances, 5E Resources may request for more sample to carry out recovery test / analysis.

Below are some tips to help customer to choose the right container:

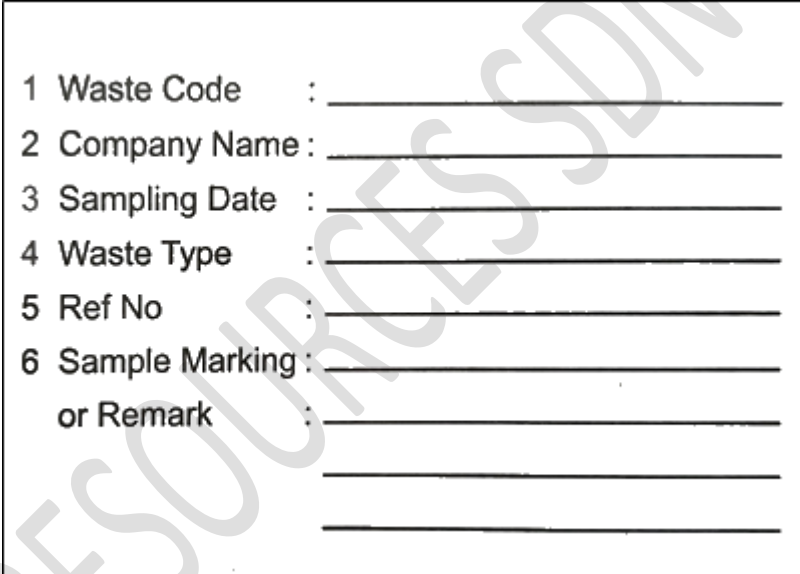
- Use the same type of container that is used to store the raw chemical.
- Follow recommendation in section 13, safety data sheet.
- Use the same type of container that is used to store the same scheduled waste in your premise.

- Follow recommendation from Department of Environment (DOE). (link: <https://www.doe.gov.my/portalv1/wp-content/uploads/2014/03/Guidelines-for-Packaging-Labelling-and-Storage-of-Scheduled-Wastes-in-Malaysia.pdf>)

2. Labelling of waste sample

Sample label is important as helps the operator to identify the sample identity during subsequent handling / analysis and also to prevent accident to happen due to lack of information to the sample received. A proper sample label should have the following information:

- I. Waste code
- II. Company name
- III. Waste type
- IV. Sample description (chemical name, origin of waste where it is produced, major contaminants inside, 2 layer in one waste or etc.)



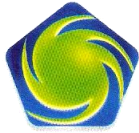
| | | |
|------------------|---|-------|
| 1 Waste Code | : | _____ |
| 2 Company Name | : | _____ |
| 3 Sampling Date | : | _____ |
| 4 Waste Type | : | _____ |
| 5 Ref No | : | _____ |
| 6 Sample Marking | : | _____ |
| or Remark | : | _____ |
| | | _____ |
| | | _____ |

Figure 1: Waste sample label used by 5E Resources Sdn Bhd

Customer can follow the information stated in figure 1 during labelling. You may also request some label from our marketing department.

3. Documented Information Required

Documented information about the physical and chemical properties of the waste is crucial in determining the suitable recovery method as well as to prevent accident from happening due to the lack of knowledge on the received waste sample. We would encourage customer to provide us information such as SDS of the raw material, where is the origin of the generation of waste, what chemical is inside the waste and etc.





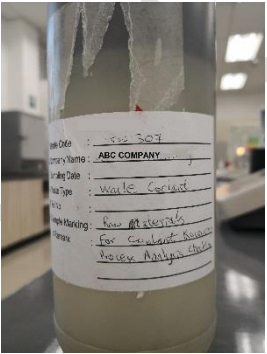
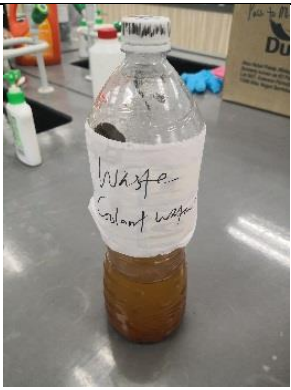
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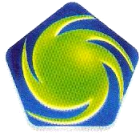
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4. Do's & Don'ts

| Do's | Issue | Don'ts |
|---|--------------------------------------|---|
|  | <p>USE SUITABLE CONTAINER</p> |  <p>inappropriate container</p> <p>inappropriate container</p> <p>inappropriate container</p> |
|  <p>Sufficient information & label pasted on the sample bottle</p> | <p>SAMPLE LABEL</p> |  <p>insufficient information</p> |







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| | | |
|--|----------------------------------|--|
| | |  sample without label |
| Provide safety data sheet (SDS) of the waste / origin where the waste sample is produced / chemical composition inside the waste | SAMPLE INFORMATION | Sample given without information |
| Around 1 kg for liquid waste Around 500g – 1 kg for solid waste | SAMPLE QUANTITY |  Insufficient sample |
|  One container for each waste | MIXING OF SCHEDULED WASTE |  Don't mix scheduled waste in one sample |

For more information, contact

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