

Spillage Control Process Flow

Process	First Responder	OCC	MRQ&E/ SAS
Chemical / Scheduled Waste spilled	Assess the spillage situation (refer to Spillage Assessment table below)	Nil	Nil
Notification and Cleaning	<u>Level 1</u> <ul style="list-style-type: none"> ✓ Do not expose yourself to the spilled chemical. ✓ Check the chemical's Safety Data Sheet (SDS)/ Scheduled Waste's Waste Card (WC) to obtain vital information regarding: <ul style="list-style-type: none"> ○ Chemical / Scheduled Waste properties. ○ Suitable cleaning procedure. ○ Suitable PPE to be used during handling. ○ Wear appropriate PPE as recommended in the SDS/ WC. <p>(All basic PPE required for the cleaning is available in the spill kit)</p> <ul style="list-style-type: none"> ✓ Stop the spill at the source. ✓ Cordon and restrict access to the spill area. ✓ Start the cleaning procedure. ✓ Do not leave the spill area unattended until the cleaning process is completed. ✓ Notify OCC, inform: <ul style="list-style-type: none"> ○ Location. ○ Type of spill (chemical/ oil/ scheduled waste). ○ Estimated quantity of the chemical/ scheduled waste spilled. 	<u>Level 1</u> <ul style="list-style-type: none"> ✓ Notify <ul style="list-style-type: none"> ○ SAS on duty: 012-3146277 and ○ MRQ&E Haryati: 014-3684500 ✓ Inform: <ul style="list-style-type: none"> ○ Location. ○ Type of spill (chemical/ oil/ scheduled waste). ○ Estimated quantity of the chemical/ scheduled waste spilled. 	<u>Level 1</u> <u>MRQ&E and SAS</u> <ul style="list-style-type: none"> ✓ Assess the situation, check and confirm the cleaning process done according to the procedure. ✓ SAS to check and confirm staff safety. SAS to notify DOSH via JKPP 6.
	<u>Level 2</u> <ul style="list-style-type: none"> ✓ Notify OCC and request assistance ✓ Inform: <ul style="list-style-type: none"> ○ Location. ○ Type of spill (chemical/ oil/ scheduled waste). ○ Estimated quantity of the chemical/ scheduled waste spilled. ✓ Do not expose yourself to the spilled chemical/ scheduled waste. ✓ Check the chemical's SDS/ Scheduled Waste's WC to obtain vital information regarding: <ul style="list-style-type: none"> ○ Chemical / Scheduled Waste properties. ○ Suitable cleaning procedure. ○ Suitable PPE to be used during handling. ○ Wear appropriate PPE as recommended in the SDS/ WC. <p>(All basic PPE required for the cleaning is available in the spill kit)</p>	<u>Level 2</u> <ul style="list-style-type: none"> ✓ Contact SAS on duty for assistance: 012-3146277 <p>Request assistance from the RST Supervisor on duty if SAS is not available.</p> <ul style="list-style-type: none"> ✓ Notify MRQ&E Haryati: 014-3684500 	<u>Level 2</u> <u>MRQ&E and SAS</u> <ul style="list-style-type: none"> ✓ Assess the situation. ✓ Check the chemical's SDS / Scheduled Waste's WC. ✓ Assist with the cleaning procedure. ✓ Request more assistance if necessary. ✓ SAS to check and confirm staff safety. ✓ SAS to notify DOSH via JKPP 6.
	<u>Level 3</u> <ul style="list-style-type: none"> ✓ Notify OCC and request assistance ✓ Inform: <ul style="list-style-type: none"> ○ Location. ○ Type of spill (chemical/ oil/ scheduled waste). ○ Estimated quantity of the chemical/ scheduled waste spilled. 	<u>Level 3</u> <ul style="list-style-type: none"> ✓ Contact BOMBA ✓ Contact SAS on duty (012-3146277) for assistance ✓ Inform: <ul style="list-style-type: none"> ○ Location. ○ Type of spill (chemical/ oil/ scheduled waste). ○ Estimated quantity of the chemical/ scheduled waste spilled. ✓ Notify MRQ&E Haryati: 014-3684500 	<u>Level 3</u> <u>MRQ&E and SAS</u> <ul style="list-style-type: none"> ✓ Assess the situation. ✓ Check the chemical's Safety Data Sheet (SDS)/ Scheduled Waste's Waste Card (WC). ✓ SAS to check and confirm staff safety. ✓ SAS to notify DOSH via JKPP 6.
Reporting	<ul style="list-style-type: none"> ✓ Notify OCC of the current situation. ✓ Prepare an incident report and submit it to SAS. 	<ul style="list-style-type: none"> ✓ Update notification ✓ Inform the CEO / related parties of the current status. 	<u>MRQ&E</u> <ul style="list-style-type: none"> ✓ Assess the whole situation; if the spillage is uncontrolled and enters the waterway, notify DOE within 6 hours. <p>DOE Hotline: 1-800-88-2727</p> <ul style="list-style-type: none"> ✓ Notify the CEO and EPMC. ✓ Compile and submit an incident report to ERLSB and DOE. ✓ Update EAEI Assessment (if necessary). ✓ SAS to check and confirm staff safety. ✓ SAS to notify DOSH via JKPP 6.

Spillage	Estimated spilled chemical volume	Description
Level 1	<5 litre to 25 litre	Controlled situation: <ul style="list-style-type: none">cleaning material/spill kit is availableengineering control, such as a sump pit, is availablepersonnel are trained to handle spillagespilled chemical/oil not spreading towards any water outlet or drain
Level 2	>25 litre to 200 litre	Uncontrolled situation: <ul style="list-style-type: none">spill kit not available near the location orspill kit capacity is not enough to contain the spillengineering control, such as a sump pit, is not available or cannot withhold the spilled volumenot enough trained personnel to handle the spillspilled chemical/oil spreads toward any water outlet or drain
Level 3	200 litre and above	Uncontrolled situation: <ul style="list-style-type: none">either one of the level 2 conditionsspillage discharged into waterwaysuntreated effluent is discharged into waterways

Cleaning Procedure

Steps	Description
1	Contained the spillage by using the boom provided in the spillage kit
2	Grab another boom and place it around the nearby water outlet to prevent the spilled chemical/oil from reaching the waterways
3	Use the absorbent pads to absorb the spilled chemical/ oil. Wait till the pads absorb the spill. Collect the used pads and put them in the disposal bag
4	Pour and spread the 'Zeosorb' granules on the surface of the spillage area to absorb the chemical/oil leftover
5	Sweep all contaminated granules and put them in the disposal bag
6	Once the cleaning process is completed, put all the contaminated cleaning material and PPE into the disposal bag. Secure it and send the disposal bag to MMT for the disposal process

Spill Kits Location

Location	Capacity	Department In-Charge
Main Workshop – Track 9 (temporary used oil storage)	200 litre	RST
Main Workshop – Track 9 (Scheduled Waste Storage)	100 litre	MMT
Main Workshop – Goods Received area	20 litre	MMT
Main Workshop – Oil storage area	200 litre	MMT
Main Workshop – TVL workshop	20 litre	SYS-TVL
Dangerous Goods & Chemical Storage	200 litre	MMT
Train Washing Plant	200 litre	RST
Infrastructure Van	20 litre	INF