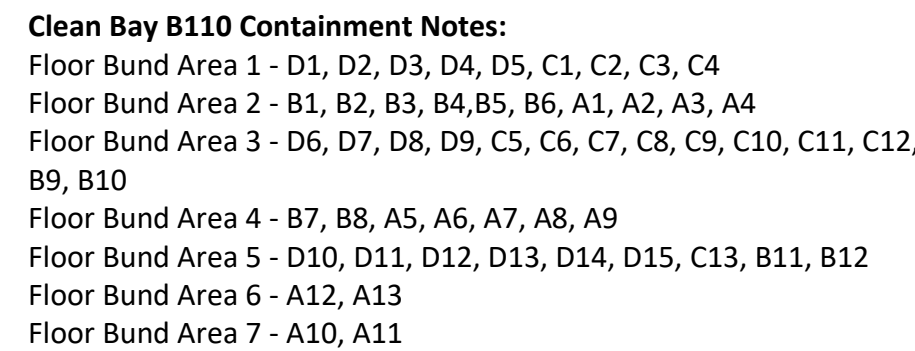


B110 Clean Bay

The diagram is titled 'MCP' and shows three parallel energy flow paths. Each path consists of three main stages connected by arrows, with associated emissions and losses shown in side boxes.

- Path 1 (Oil Heater):**
 - Stage 1:** 'Elec Demand - Process and Lighting' and 'Gas Demand - Boiler for V&V Heating' lead to an 'Oil Heater B110 Cook Bay'.
 - Stage 2:** 'Oil Heater B110 Cook Bay' leads to 'Heated Oil Transferred to Tanks (Oil Filled Pipework)'.
 - Stage 3:** 'Heated Oil Transferred to Tanks (Oil Filled Pipework)' leads to 'Tank & Pipework Insulation'.
 - Emissions:** 'Indirect CO2 Emissions (Energy & Water Consumption)' and 'Fume, Gas, Vapour, Dust Emissions' are associated with the Oil Heater.
 - Losses:** 'Thermal Losses from V&V and Pipework' are associated with the transfer to tanks.
- Path 2 (Summer Boiler):**
 - Stage 1:** 'Elec Demand - Process and Lighting' and 'Gas Demand - Boiler for Process & Comfort Heating' lead to a 'Summer Boiler'.
 - Stage 2:** 'Summer Boiler' leads to 'Heated Water to B2'.
 - Stage 3:** 'Heated Water to B2' leads to 'Pipework Insulation'.
 - Emissions:** 'Indirect CO2 Emissions (Energy & Water Consumption)' and 'Fume, Gas, Vapour, Dust Emissions' are associated with the Summer Boiler.
 - Losses:** 'Thermal Losses from Pipework' are associated with the transfer to B2.
- Path 3 (Main Gas Boilers):**
 - Stage 1:** 'Elec Demand - Process and Lighting' and 'Gas Demand - Boiler for Comfort Heating' lead to 'Main Gas Boilers (MCP located in Boiler House)'.
 - Stage 2:** 'Main Gas Boilers (MCP located in Boiler House)' leads to 'Heated Water to V&V Building Radiators'.
 - Stage 3:** 'Heated Water to V&V Building Radiators' leads to 'Pipework Insulation'.
 - Emissions:** 'Indirect CO2 Emissions (Energy & Water Consumption)' and 'Fume, Gas, Vapour, Dust Emissions' are associated with the Main Gas Boilers.
 - Losses:** 'Thermal Losses from Pipework' are associated with the transfer to radiators.



Compressed Air Connections: D1, D3, D4, D5, D8, D9, D13, C1, C2, C3, C4, C5, C6, C8, C10, C11, C12, C13,

Drainage Connections near MRF
Foul to Fareham Rd and Surface Water to Crabtree lake serving B142. Green B136 – Oil Interceptor

Surface Water to Crabtree lake serving area 99.

Foul to Fareham Rd (Outfall) and Surface Water to Crabtree lake

Foul to Fareham Rd (Outfall) and Surface Water to Crabtree lake

Heated Tanks
A1, A4, A8, A10, A11, B1, B2, B4, B7, B11, B12, C3, C4, C11, C13, D2, D3, D4, D5, D6, D9.

Lidded Tanks
A6, B9, C5, C6, C8, C11, C13, D1, D3, D4, D5, D11(Temp), D13, D14(Temp)

[illegible]

Effluent Sample Plan

SP1 – filter Cake (Compliance (WAC) before off haul)
SP3 – Scrubber Liquid A (WM3 Compliance before off haul)
SP4 – Scrubber Liquid B (WM3 Compliance before off haul)
SP5 – Scrubber Liquid C (WM3 Compliance before off haul)
SP6 – Off Haul Tank 33 (Cadmium VATs) (Basic Characterisation 1 samples monthly for 12 month)
SP7 – Off Haul Tank 34 (Alkali VATs) (Basic Characterisation 1 samples monthly for 12 month)
SP8 – Off Haul Tank 36 (Cadmium VATs) (Basic Characterisation 1 samples monthly for 12 month)
SP9 – Off Haul Tank 35 (NDT) (Basic Characterisation 1 samples monthly for 12 month)
SP10 – H+5 General Line (Basic Characterisation 1 samples monthly for 12 month & Compliance see Permit)
SP11 – H+5 Chrome Line (Basic Characterisation 1 samples monthly for 12 month & Compliance see Permit)
SP12 – Off Haul Tank 31 General Line (Basic Characterisation 1 samples monthly for 12 month)
SP13 – Off Haul Tank 29 Chrome Line (Basic Characterisation 1 samples monthly for 12 month)
SP14 – Off Haul Tank 32 NDT Line (Basic Characterisation 1 samples monthly for 12 month)
SP15 – Sump 21 Gehal (Basic Characterisation 1 samples monthly for 12 month)
SP16 – Sump 12 Chrome Line (Basic Characterisation 1 samples monthly for 12 month)
SP17 – Sump 13 Chrome Rinse Line (Basic Characterisation 1 samples monthly for 12 month)
SP18 – Sump 7 Permanganate Line (Basic Characterisation 1 samples monthly for 12 month)
SP19 – Sump 22 NDT Rinse Line (Basic Characterisation 1 samples monthly for 12 month)
SP20 – Sump 1 Cadmium Line (Basic Characterisation 1 samples monthly for 12 month)
SP21 – Sump 15 Non Haz Line (Basic Characterisation 1 samples monthly for 12 month)
SP22 – Tank 71 Outfall (Compliance see permit and Sothern Water Consent)
SP23 – Filtration Line Sump 15 (In-Process monitoring, suggest every quarter)
SP24 – Filtration Line Sump 1 (In-Process monitoring, suggest every quarter)
SP25 – Filtration Line Sump 22 (In-Process monitoring, suggest every quarter)
SP26 – Filtration Line Sump 13 (In-Process monitoring, suggest every quarter)