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NSW Environment Protection Authority

Re: Quarterly Update and Odour Management Plan findings

Please find below quarterly update and findings from the ongoing Odour Management Plan (OMP).

Progress of MTOH Upgrade

Currently the Main Thermal Oil Heater (MTOH) and Odour Control Furnace (OCF) are used to treat odorous air. The OCF is the main system, and also treats air from the MTOH, if it is down for maintenance.

When the OCF is down, carbon beds are used, as the MTOH is not capable of treating all waste air from the plant.

S851 (Main Carbon Bed) treats waste air coming from the wet side, and S907A/B&C treat waste air from the ASF (Activated Sludge Facility).

Initial plans to increase the capacity of waste air treatment through the MTOH so that it acts as the main waste air destruction furnace have been deferred due to business limitations. The operation of the existing backup carbon beds is being reviewed and optimised to ensure that an adequate backup system exists.

Flow Monitor Calibrations

Routine comparisons of manual in line flow measurements and Citec are being added to the Odour Management Plan, with corrections to Citec being made if required.

This will allow operator better monitoring over the extraction system.

Odour Complaints

During the quarter **NO** odour incidents were reported to CO Homebush from the EPA.

Odour Control Furnace

On 30th June CTS notified EPA that OCF destruction efficiency was 87 % tested on 25th May 2016.

Investigations have shown that the tubes in the OCF Heat Exchanger have “dropped” allowing some of the gases to bypass the heat exchanger.

OCF Heat Exchanger bundle has been replaced on the first week of September, commissioning started on the 9th September 2017.

Stack testing was carried out on the 14th of September 2017 and the destruction efficiency was 96.6%.

Stack testing was carried out on the 15th of February 2018 and the destruction efficiency was 97.0%.

Stack testing was carried out on the 3rd of May 2018 and the destruction efficiency was 99.0%.

Stack testing was carried out on the 27th of September 2018 and the destruction efficiency was 96.0%

Stack Testing was carried out on the 15th of January 2019 and the destruction efficiency was 96%

Stack Testing was carried out on the 14th of March and the destruction efficiency was 93%

Stack Testing was carried out on the 29th of May and the destruction efficiency was 95%

Stack Testing was carried out on the 20th of August and the destruction efficiency was 87% , this is mainly attributed to the low OU in the OCF inlet (14,000 OU).

Stack Testing was carried out on the 6th of November 2019 and the destruction efficiency was 84%. This is mainly attributed to the low OU in the OCF inlet (5,100 OU).

Stack testing was carried out on the 27th of February 2020 and the destruction efficiency was 94%.

Air extraction from Residue Processing Plant

The preventative maintenance of the waste air extraction system for the Residue Processing Plant has been improved with a focus on more regular monitoring of the relevant parameters and actions being taken when the monitoring indicates a trend towards poor performance.

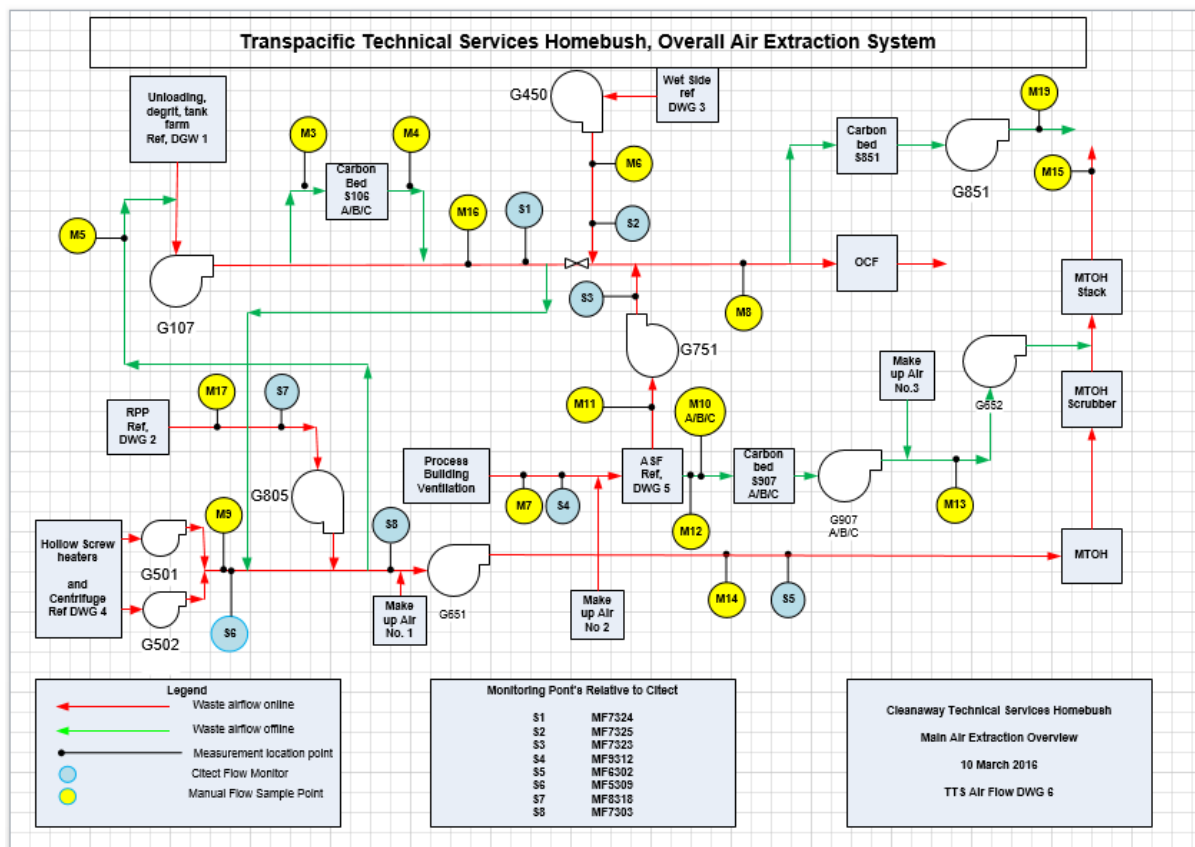
Odour Management Report

The Odour Management report is part of Cleanaway Operations Pty Ltd (CO) Odour Management Plan (OMP). The purpose of the OMP is to provide information to the site on the performance of the extraction system, to ensure it is operating effectively, assess frequency of key maintenance schedules and to identify areas requiring further improvement.

The treatment plant has been divided into 7 sections for the purpose of these investigations. Each area is assessed to the OMP each quarter as minimum.

During the assessment any findings requiring corrective action are scheduled in the site maintenance schedule using the Maintenance Job Request (MJR) system, overall findings of the assessments are collected into this report and submitted to the NSW EPA in the first month of each calendar quarter.

Manual air flow monitoring is a key focus of the OMP and the entire air extraction system has been assessed to identify key points for monitoring, below is an overview of these points, while key each area has also been assessed:



Screening and Receivals Area Checklist

Comments from Inspection	Corrective Action
T102A shaft seal broken.	MJR issued to fix shaft seal. MJR 12515.

Comments from Flow Monitoring	Corrective Action
Nil	

Residue Processing Plant Area Checklist

Comments from Inspection	Corrective Action
Nil	

Comments from Flow Monitoring	Corrective Action
Nil	

Wet Side Operations Area Checklist

Comments from Inspection	Corrective Action
Nil	Nil

Comments from Flow Monitoring	Corrective Action
Nil	

Process Building Area Checklist

Comments from Inspection	Corrective Action
Nil	Nil

Comments from Flow Monitoring	Corrective Action
Nil	

Activated Sludge Facility Area Checklist

Comments from Inspection	Corrective Action
Condensate water from T922 (transfer station) waste airline drained on weekly basis.	Last drained 23/04/2020 (condensate <100 ml)

Comments from Flow Monitoring	Corrective Action
Nil	

MTOH and RFO Area Checklist

Comments from Inspection	Corrective Action
Nil	

OCF Area Checklist

Comments from Inspection	Corrective Action
No PID readings or evidence of odour.	Nil