

Mindarie Regional Council
Odour Management Key Stakeholder
Working Group

28 November 2024 Meeting –**Minutes**

Released 06 December 2024



Date: 28 November 2024 at 2pm

Location: Mindarie Regional Council

Attendance:

Environmental Supervisor (ES)

Odour Data Assistant (ODA)

Apologies:

Odour Consultant (OC)

Operations Supervisor (OS)

Communications Specialist (CS)

Chief Executive Officer (CEO)

Acting Executive Operations Manager (A/EOM)

ELO: D-24-0011181

1. MRC – OMKS –Previous Meeting – completed actions

- Odour Management Plan
 - Update on deliverable timeline – Mid-July 2024.
 - Draft document has arrived, MRC to review
 - Waiting on results of trial of ‘mistifiers’ (odour suppression)
 - Draft odour report from consultant received by MRC – currently reviewing
- Landfill Gas Emission Investigation
 - Canister testing
 - Source quotes for landfill gas odour testing – matching landfill gas (from landfill) to landfill gas (from power station). – requesting quotes
 - Discuss the quotes and requirements of the site
 - DWER undertook odour field survey on site on 25th Oct 2025
 - Information from survey provided to MRC
 - Question: reconsider undertaking canister testing from the leachate on site.
- Sacrificial Horizontal Landfill Gas Wells

- ES investigating the last time the landfill gas wells were installed in the landfill and the gas capture of the gas wells previously installed. – completed, discussion with EDL re: drilling/well installation
Update:
- Lower landfill bench - Sacrificial Horizontal wells have now been installed. Further wells to be installed as ongoing process in future.
- Seeking information from the Landfill Gas contractor on the landfill gas collection volume. This has now been provided and capture is expected to increase as the wells develop.
- DWER – Engagement
 - Community Website update
 - Updated 15 November 2024
 - Link: <https://www.wa.gov.au/service/environment/environment-information-services/tamala-park-landfill>
 - DWER community odour complaints registered
 - DWER recently met with community group and local MLA. DWER is pulling together 'odour sentinels' team within the community.
- Drone – Thermal Imagery

During the recent odour survey on site, discussions were had around thermal imagery. OC and ES discussed the heat being generated by the landfill and the potential of odours being drawn up with the heat.

 - Discussion – Obtain three quotes as per the purchasing policy, with two options:
 - Option 1 – the initial investigation, see if results have useable information to enable additional strategic management of extracting landfill gas/ odour.
 - Option 2 – MRC to proceed with additional survey
 - Action – ES to obtain three quotes - underway

2. MRC – OMKS – Working Group

Open discussion:

1. Community Engagement –

Potential for additional information to be added to the website

- Discussions/ suggestions:
 - Update to website:
 - Updated the website on 10.10.2024, 5.11.2024 and 20.11.2024 that the MRC will excavate old rubbish to install sacrificial horizontal landfill gas wells.
 - Updated the website on 27.11.2024 of work to install new pipework/infrastructure to support leachate management

2. Budget Discussion:

- 2024/25 Budget
 - Investigation of Leachate Treatment Plant options
 - Update: Pilot Treatment Plant RFQ has closed, and evaluation of the proposals are due mid December 2024
- Capping on the Western side of the landfill
 - Update: Liners have arrived on site, capping of the western side of the landfill has started up again. Contractors are working 7 days a week, within specified noise regulations

- Capping works (liners and cover) expected to be completed by Christmas
- Installing of new pipework/infrastructure to support leachate management

3. DWER – Engagement

- **DWER community odour complaints registered**
 - DWER provides weekly updates of total community odours complaints relating to Tamala Park
 - DWER undertook odour field survey on site on 25th Oct 2025
 - Action: MRC contacting the DWER for a copy of the results
 - Information from survey provided to MRC
 - Informed DWER on 10.10.2024, 5.11.2024 and 20.11.2024 that the MRC will expose a small amount of waste for a short time to install sacrificial horizontal landfill gas wells.
 - Informed DWER on 27.11.2024 of capping works which involve the installation of new pipework/infrastructure to support leachate management
- **DWER – Environmental Pollution Notice**
 - DWER has contacted MRC regarding the issuing of an Environmental Protection Notice.

4. Leachate Management

- **Re-injection**
Potential to re-inject leachate into suitable portions of the landfill. This will keep the moisture level up and reduce the risk of subterranean fires. Leachate being extracted from landfill gas extraction wells will be re-injected into landfill. This is so it isn't added to leachate ponds on surface of the landfill.
- **Leachate extraction pumps**
6 landfill gas extraction wells have been impacted by leachate. This reduces the ability for landfill gas to be extracted from the well. Pumps can extract leachate within the well, thus providing more space within the well to collect landfill gas.

3 of the 4 Airwell pumps have been installed, while the two remaining require more specialised extraction pumps/ pipes due to the extraction wells being deformed or narrowed under compaction and usual movement within the landfill. These are expected to be installed by mid-December.

5. Comment problem smells – recorded

	September	October
Garbage / Rubbish	44	70
Sour / Acid / Milk	2	4
Chemical / Gassy	13	22
Paint thinners	0	0
Medical	0	0
Burnt / Smoking	5	4
Sewerage/septic	13	18
Rotten Eggs	2	20
Smells	26	19
Putrid/rancid	24	19

No description in the complaint	2	0
Other / listed in comments	0	0
Toxic	6	10
Landfill	0	1
Dead	0	0
Nauseating	5	1
Totals	142	188

6. Alternative Odour Treatment Investigation

Discussion: A product called Odor-shell, is another odour management tool to investigate. It claims to kill odours and is environmentally friendly.

“Odor-Shell® Complaint Eliminator was developed specifically to address industry’s most challenging waste odors. Whether generated from landfill, food, animal, agricultural, or sewage wastes, Odor-Shell®’s environmentally friendly formulation kills offensive odors on contact before they become problems”

“Landfill Operations – Odor-Shell® enables landfill managers to complete critical, but potentially offensive, tasks by containing odor releases at their source. Odor-Shell® is used to kill odors from working faces, well drillings, landfill excavations, special waste trenches, and sewage sludge.”

(https://www.lscenv.com/product_pdfs/1537380291_Odor-Shell%20Brochure%202.9.17%20-%20email.pdf)

Action: To investigate the Odor-Shell in the landfill context

Download the SDS and assist

Contact suppliers of the product, organise a site visit and investigate their capabilities.

Update: One company has replied to inquiries, while an additional two are being sourced, as per the MRC COP06 Purchasing policy.

3. Operations Optimisation Programs to reduce odours

Operational activity to reduce odours on-site during October 2024

Item	Activities on-site to reduce odour issues	Comments
Landfill	Zeolite	Spread on landfill as required
	Covering the waste	150mm limestone
	Landfilling bench	5m reduced to 3.5m
	New Vibrating Roller	As required
Power Station	Generated Kwh	1,725,443
	Efficiencies – Tonnes CO _{2-e} Abated	9,341
Landfill gas	Landfill Gas Monitoring	Within Licence Condition parameters
	Efficiencies	October 2024 Wellfield adjustment Program – completed
Leachate	Leachate pond	BioWish added once a week. Ecosorb as required

4. Special Investigations/ Events

Looking into alternative odour mitigating products – Odor-Shell – see above

5. Community Odour Complaints Register for October 2024

October 2024

During October 2024, two hundred and thirty-eight (239) community odour complaints were registered. Of which 165 were identified as being impacted over 29 days for October. 30 of these complaints were new to our system. Key locations Clarkson, Catalina, Mindarie and Kinross.

6. External Correspondence

DWER visit, notifications

See comments above

7. Key Meetings/ Events Ahead

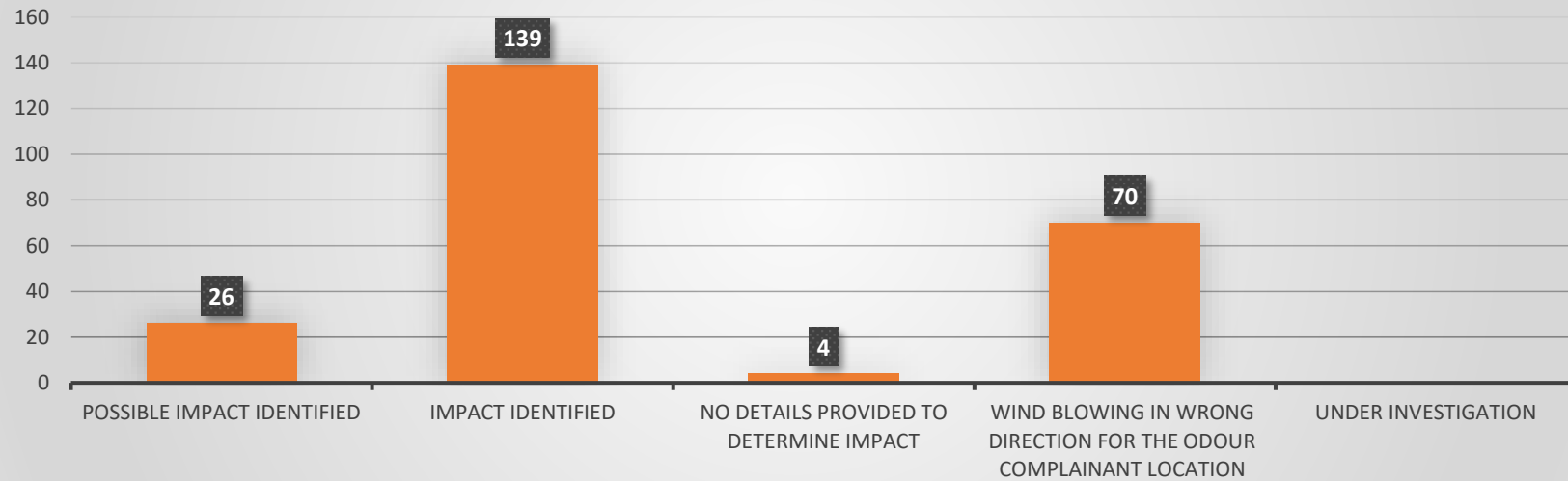
Odour mister trial outcomes

Discussion with the contractor regarding additional sacrificial horizontal landfill gas extraction wells.

8. Next Meeting

December 2024

Event Odour Outcomes October 2024



Complaint Location October 2024

