

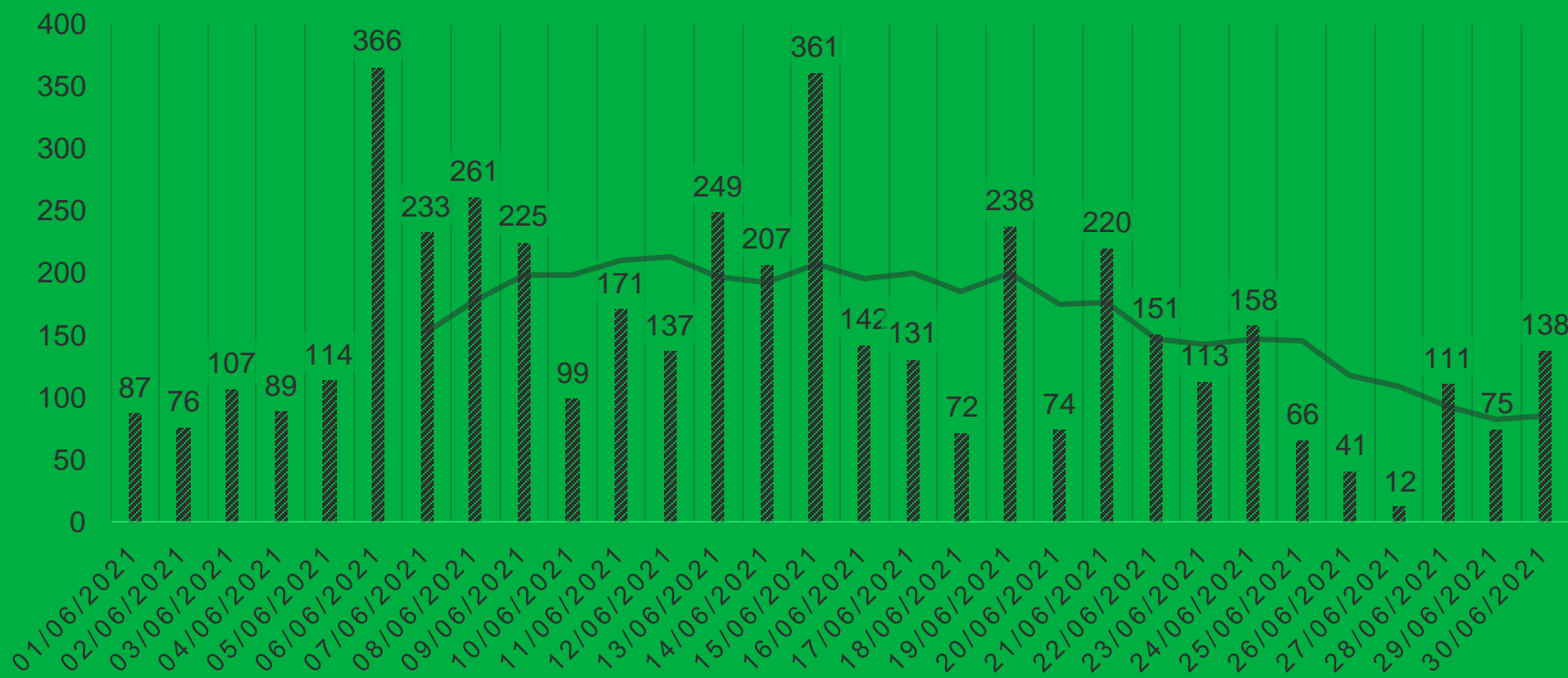
Environment Agency

Liaison Meeting - Walleys Quarry Landfill

29 July 2021

Odour Reports Summary - June

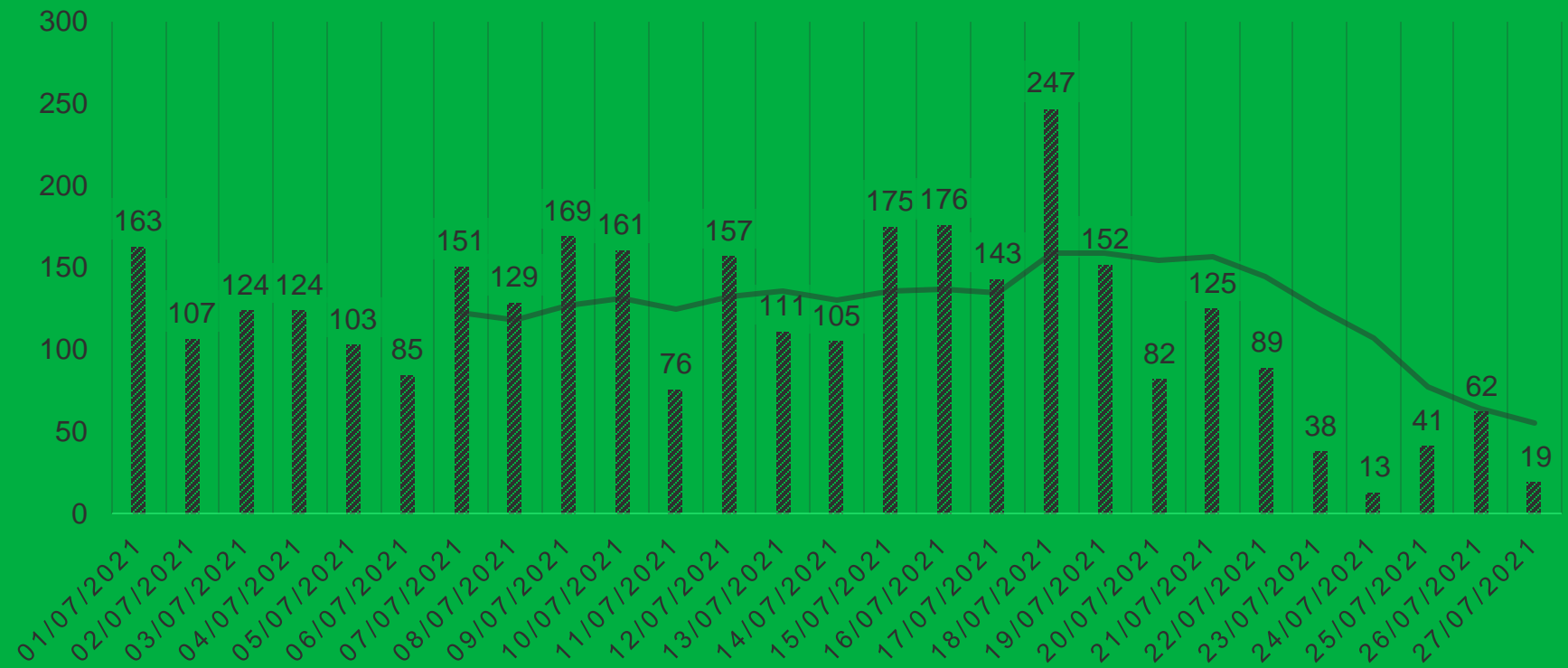
DAILY NIRS ODOUR REPORTS



Odour Reports Summary – July

(>400 email reports still to be added)

DAILY NIRS ODOUR REPORTS



Compliance Activities

Compliance activities check whether operators are meeting the requirements set out in the conditions of their permit, activities are risk based and planned, with the outcomes recorded on a Compliance Assessment Report (CAR) form.

Compliance assessments vary in frequency, duration, detail and complexity:

Site visits: check compliance with some permit conditions

Audits: more in depth check of compliance with permit conditions

Report/Data reviews: quarterly and annual monitoring reports, engineering reports, notifications

Procedure reviews: review of the operators procedures to ensure they are both adequate and being followed – odour management plan, dust management plan

We record all non compliances, each is given a score. There are 4 risk categories of non-compliance. They represent the severity of the reasonably foreseeable impact, or in the case of amenity conditions, the actual impact. The scores are accumulated during the compliance year and impact the annual charge.

Compliance Activities

Year	Site Visit & Audit (including remote)	Procedure & Report/Data Review	Permit Breaches Recorded
2019	23	16	11
2020	20	16	14
2021	30	14	12

2021 – Amenity Assessments, not included in above figures - 65

Compliance Summary

Compliance summary since last meeting on 10 June

14 June – Review of Gas Management. Review of weekly reports. Gas collection increased from 1800m³/hr early January to 2600m³/hr by early April, following addition of 12 deep gas wells. Gas collection declined to 2200m³/hr at end of April, due to air ingress. Gas collection increased 20 May to 6 June, 2400 – 2700m³/hr, following capping and gas well sealing. Review of report on gas extraction, maintenance, plant capacity and distribution of gas wells. Timetable for additional large capacity flare on permanent basis requested.

14 June – Site inspection. Focused on capping of cells 1 & 2, area for use of PosiShell temporary capping, operational area, surface water pond and replaced litter fencing. Odour checks carried out prior to inspection at a number of locations, faint, intermittent, odour detected at 1 location. Flare was in use with an additional temporary flare on site to provide back up. Intermittent, faint odour detected on eastern boundary of site only, proposals requested for additional measures to reduce fugitive emissions.

Compliance Summary

22 June – Gas management audit. Action required to install telemetry link to demonstrate continuous and efficient operation of the gas plant. Alternative gas pre-treatment options to be considered. With additional temporary flare, total flare capacity now 3500m³/hr. Updated landfill Gas Management Plan and landfill Gas Risk Assessment, to reflect the operational changes from installing an additional large capacity flare requested by 31 July. Sulphur dioxide testing of emissions from gas plant requested, followed by atmospheric dispersion modelling.

23 June – Review of surface emissions survey. Proposals to be submitted for remedial works at areas with elevated surface emissions.

28 June – Audit of odour management plan. A review of the odour management plan has commenced, alongside the review of the Landfill Gas Risk assessment.

30 June – Site inspection – intermittent landfill gas odours picked up on site. No dust issues. Wheel wash in use.

Compliance Summary

1 July – Review of gas engines and flare emissions to air monitoring report as required by permit. Report confirms compliance with permit emission limits.

6 July - Site inspection. Intermittent landfill gas odour picked up on site. FID survey being carried out during visit.

8 July – Site inspection.

16 July - Regulation 61(1) Notice for Information served on gas contractor. Notice requires them to provide weekly continuous monitoring data from the gas plant for the preceding week, beginning Wednesday 25 August 2021 until 6 October 2021. This information is required to confirm the operational status/performance of the gas plant and compliance with the permit and landfill gas management plan.

21 July – Review of PosiShell method statement and risk assessment. Queries raised and revised submission requested by 30 July.

CQA capping cell 1 being reviewed.

Air Quality Monitoring

Raw 30-minute H₂S data compared to the WHO odour annoyance level for H₂S. The numbers are the percentage of time the monitoring location has recorded H₂S above the WHO annoyance guideline level:

Monitoring station	6 June – 13 June	13 June - 20 June	21 June – 27 June	28 June – 4 July	4 July – 11 July	12 July – 18 July
MMF1 - Silverdale Cemetery	1%	11%	2%	1%	5%	1%
MMF2 - Silverdale Road	10%	7%	1%	8%	18%	2%
MMF6 - Newcastle-under-Lyme Fire Station	10%	9%	4%	8%	3%	2%
MMF9 - Galingale View	19%	13%	12%	10%	17%	23%

It is important to note that all of this data is raw data. This means it has not been subjected to quality assurance checking or calibrations. Therefore the data should not be relied upon to make regulatory or health decisions as this may change significantly once it goes through the quality assurance checking and calibration process.

Variation Application

Variation application received in July 2020 and Duly Made on 11 November 2020. This means we have sufficient information to commence our determination of the application.

The variation application requests the following changes:

- Increase leachate levels within the site, with a supporting Hydrogeological Risk Assessment to demonstrate the change will not cause pollution of groundwater.
- Increase the compliance limit for methane for one borehole and to amend the carbon dioxide limit for 13 boreholes. This is to account for the presence of higher levels of carbon dioxide in the background, within mine gas in the local strata.
- To change the design of the capping to include the option for using membrane. Currently the site is permitted to use a 1 metre clay cap only.
- Install an additional Landfill Gas Engine (added to application in February 2021)

Consultation will be undertaken on Draft “minded to” decision once this is complete.

We will only issue a permit variation if we believe that harm to the environment, people and wildlife will be minimised and that the operator can meet the conditions of the permit.

Communication & Engagement

- **Community Updates on web page**

- <https://consult.environment-agency.gov.uk/west-midlands/walleys-quarry-landfill-sliverdale/>

- **Engagement Sessions**

- Last EA Community event
 - Wednesday 23 June