

## Walleys Quarry weekly update – 19 January 2023

The Environment Agency has prepared this weekly update to help the community of Newcastle-under-Lyme and the wider area keep informed about developments concerning its regulation of Walleys Quarry Landfill.

Walleys Quarry Ltd is the operator of the landfill site and it alone is responsible for the hydrogen sulphide emissions escaping from the site.

The Environment Agency is the environmental regulator. We require Walleys Quarry Ltd to meet its environmental obligations and resolve the ongoing odour issues at the landfill as quickly as possible.

### News in brief

#### Regulatory activity

Temporary capping work continues in the southeast area of the site (Phase 3).

On 13 January 2023, the landfill gas flow to the gas utilisation plant was 3200m<sup>3</sup>/hr and the proportion of hydrogen sulphide (H<sub>2</sub>S) within the landfill gas was 1560ppm. These figures are slightly higher than last week. This is because the gas field has been re-balanced to deliberately extract additional gas from the more historic waste, in an area where higher levels of H<sub>2</sub>S have recently been detected onsite.

#### Facebook Group

We continue to work on responding to the questions you submitted using the January Q&A thread. As a reminder, there may be some questions that we cannot answer for legal reasons, some that may fall outside our remit as the regulator of the environmental permit, and some which we may group together if they are on a common theme.

We'd like to remind readers of this update that anyone can join the Facebook group, by following this link: [Environment Agency - Walleys Quarry - Landfill Site | Facebook](#). You must accept the group rules to be admitted.

Transcripts of all previous Facebook Q&A sessions, dating back to May 2022, can be accessed on our Citizen Space webpage.

#### Reporting odour

It is important that you continue to report odour to us. Reports from local people, along with our regulatory visits and monitoring from our mobile monitoring facilities help to create a picture which informs our enforcement and regulatory approach.

The easiest and quickest way to make a report is via GOV.UK at: <https://report-walleys-quarry-smell.service.gov.uk>.

If you do report odour to us via our incident hotline, please be courteous to our staff. They are working to deal with your reports as efficiently as possible.

### Latest hydrogen sulphide levels

Our Ambient Air Monitoring Team continues to check air quality around Walleys Quarry landfill. It does this through a network of mobile monitoring facilities (MMFs) that are positioned in communities around the site. These check for levels of hydrogen sulphide and methane, which are indicators of odour pollution.

The charts below contain a summary of the raw data collected from our MMFs in the period 9 January to 15 January 2023. During this period, they decreased at MMF1 and MMF2 and stayed the same at MMF6 and MMF9.

| MMF ID & Location               | % of time the monitoring location recorded H <sub>2</sub> S above the WHO annoyance guideline level % | Change             |
|---------------------------------|---|--------------------|
| MMF1 Cemetery                   | 0.0%  | ▼ on previous week |
| MMF2 Silverdale Pumping Station | 0.3%  | ▼ on previous week |
| MMF6 Fire Station               | 0.0%  | — on previous week |
| MMF9 Galingale View             | 0.0%  | — on previous week |

*It is important to note that this is raw data and may change slightly as results are verified.*

It's important to note that there will always be short-term fluctuations in the concentrations of hydrogen sulphide leaving the site especially given the low concentrations we are monitoring. The causes can include factors such as the impact of improvement works being carried out on site and changes in the weather.

Concentrations of landfill gas emissions generally increase overnight, during periods of colder weather, and in still wind conditions with clear skies.

Hydrogen sulphide concentrations continue to be greatly reduced compared with the period monitoring began, in both the source emission and ambient air measurements. Air quality monitoring data provides additional confidence that our ongoing regulation is ensuring the source emission of hydrogen sulphide from the landfill site continues to remain low.

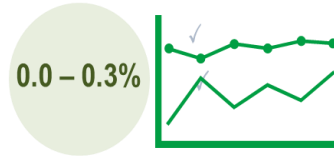
We are not focusing on the monitoring data in isolation and recognise that people may still detect odour from the site. We continue to compare daily odour incident reports with air quality data and source emissions monitoring, looking for trends and issues which may require challenging Walleys Quarry Ltd to further improve site operations and the capture of fugitive emissions.

### Odour Reports

In the week 9 January to 15 January 2023 the Environment Agency received a total of 25 odour reports from local members of the public. The highest number of odour reports was on Saturday 14 January when 5 reports were received.



Number of odour reports/complaints to the Environment Agency  
9 Jan - 15 Jan 2023



Hydrogen Sulphide 30 minute average odour annoyance: % of time above WHO guideline level  
9 Jan - 15 Jan 2023



Hydrogen Sulphide Level. 24 hour World Health Organisation guideline to protect against short term health effects

### Correspondence

Other than by means of the Facebook Group mentioned above, we are unable to answer questions through social media. If you have a question, you can [email](#) us.

### Other sources of information

UK Health Security Agency public health messages and advice about the effects of odours from Walleys Quarry landfill are available online via Staffordshire County Council's website: [Frequently asked questions about the health effects of odours and emissions from Walleys Quarry: - Staffordshire County Council](#)

Walleys Quarry Ltd website: <https://walleysquarry.co.uk>