

# WALLEYS QUARRY KPI REPORT



Date of Report: December 2024				
Landfill Operations		Information	Measurement	Summary and Actions (Additional Document Reference as applicable)
KPI 1	WASTE ACCEPTANCE	Non-conformance raised with waste operator	CCS score(s) including summary and actions.	0 Non-conformance raised with operator. 0 CCS scores received
KPI 2		No of loads inspected.	each	1036 loads received. 1036 loads inspected.
Landfill Operations		Information	Measurement	Summary and Actions (Additional Document Reference as applicable)
KPI 3	ODOUR MANAGEMENT	Non-conformance raised with waste operator	CCS score(s) including summary and actions.	0 Non-conformance raised with operator. 0 CCS scores received. 0 non conformances identified.
KPI4		No of odour tours  No of odour tours where odour detected off site		47 tours  3 external odours.
Landfill Operations		Information	Measurement	Summary and Actions (Additional Document Reference as applicable)
KPI 5	ACTIVE TIPPING AREA	Operational Surface area total	m3	127,066 m2
KPI 6	ACTIVE TIPPING AREA	Active tipping area	m3	25,668 m2
Landfill Operations		Information	Measurement	Summary and Actions (Additional Document Reference as applicable)
KPI 7	CAPPING OF OPERATION AREA	Temporary capping	m3	Temporary Capping 29,985m,2 (24 %)
		Permanent capping	m3	Permanent Capping 55,700m2 (44 %)
				Total Capped area 85,685 m2 (67%)
Landfill Operations		Information	Measurement	Summary and Actions (Additional Document Reference as applicable)
KPI 8	LANDFILL GAS MANAGEMENT	Surface & Gas infrastructure emission surveys	Number of remaining matters open in the month	0
KPI 9	LANDFILL GAS MANAGEMENT	Concentration of Hydrogen Sulphide in 'raw' bulk gas	ppm	2,000 ppm – recorded from CLP H2S GUP input data

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KPI 10	LANDFILL GAS MANAGEMENT	Landfill Gas capture rate (monitored at the GUP)	m3/hr	3,058 m3/hr - averaged across period
KPI 11	LANDFILL GAS MANAGEMENT	Appendix A LGMP Gas Management Plan (live document)	Progress including summary and actions	See explanatory notes
Landfill Operations		Information	Measurement	Summary and Actions (Additional Document Reference as applicable)
KPI 12	LEACHATE MANAGEMENT ACTION PLAN	Actions (13 actions)	Progress including summary and actions	See explanatory notes.
Landfill Operations		Information	Measurement	Summary and Actions (Additional Document Reference as applicable)
KPI 13	PRIMARY REGULATOR	Compliance Assessments Visits	Number undertaken for which CAR form issued to operator	One visit within the period:  13 <sup>th</sup> December DP3734DC/0485800 2 x C2 Scored 62 points.
KPI 14	PRIMARY REGULATOR	Compliance Assessments Visits	Number Undertaken where a CCS score is raised with operator, including summary and actions	1 regulatory compliance assessments undertaken which resulted in a compliance assessment score – see explanatory notes.
KPI 15	PRIMARY REGULATOR	Compliance Assessments Visits	Number Undertaken where no CCS score is raised with operator, including summary and actions	0 regulatory compliance assessments undertaken which resulted in 0 compliance assessment scores

## Date of Explanatory Notes: December 2023

### KPI 1 and KPI 2 Waste Acceptance

No non-conformances have been received from the regulator within the period.

1036 loads inspected within the period, with 0 loads rejected.

### KPI 3 and KPI 4 Odour Management

No non-conformances have been received from the regulator within the month, with four site regulatory inspections/reviews undertaken. CAR reports for site visits confirm 1 offsite odour detected by Environment Agency officers. This was not reported to WQL contemporaneously with the observation. The Agency assessments cover a wide scope of permit conditions including engineering, containment, operational activities, landfill gas management, odour and pest management.

47 odour tours conducted by WQL, with 44 reflecting no odours experienced. Contemporaneously with these odour tours, checks on the gas collection and treatment infrastructure, site engineering and operations and local weather factors were reviewed to ensure all appropriate actions were being undertaken. No non-conformances were identified during these times. And all appropriate actions were being taken.

### KPI 5 and 6 Active Tipping Area

The overall current landfill 127,066m<sup>2</sup>. The active area is confined to Cell 2. The current active area remains contained and measures some 25,668m<sup>2</sup>. This is aligned with the approved capping and phasing plan, as agreed with the Environment Agency. The active operational area is progressively covered during the day to minimise the time that fresh waste remains uncovered. This is in line with best practice and our operating techniques. We retain healthy stockpiles of cover material to facilitate this progressive covering.

### KPI 7 Temporary Capping

Currently, 29,985m<sup>2</sup> of the surface area of the facility is temporarily capped, either using a high specification, low permeability engineering clay. This is in line with the capping and phasing plan for the facility, as agreed with the Environment Agency and an increase on the previous period. Maintenance works continue to clay capped areas in line with the agreed (by the Environment Agency) CQA (Construction Quality Assurance) specifications.

### Permanent Capping

Relating to permanent capping, 55,700m<sup>2</sup> of the surface area of the facility is capped, by the installation of a low permeability geomembrane. This is in line with the capping and phasing plan for the facility, as agreed with the Environment Agency with all permanent capping works being conducted under the process of Construction Quality Assurance (CQA). Subsequently, on completion of the

permanent capping works, cover soils continue to be imported to the facility as part of the site restoration process.

## KPI 8 - 10 Landfill gas management

WQL continues to undertake the extensive regime of surface emission surveys, as agreed with the Environment Agency. A FID survey was conducted in September 2023.

The concentration of H<sub>2</sub>S at the facility remains within expected limits and in January, averaging 2000ppm at the Gas Utilisation Plant (GUP), as measured by CLP Envirogas Ltd and representing a reduction on the previous period.

The volume of gas captured at the facility remains within expected limits, at 3,058m<sup>3</sup>/hr, comparable with the previous period. The flow rate has remained high and consistent across the period. WQL continue to review this position and drive the gas management contractor, CLP Envirogas Ltd, to ensure that gas collection is continually reviewed to assess relevant developments that can be made.

## KPI 11 Landfill Gas Management - Landfill Gas Management Plan

The LFGMP continues to be developed by WQL and adopted by CLP Envirogas Ltd. From Appendix A of this document, three actions remain open and in progress, namely:

Site Specific Balancing Plan – this is being developed by WQL, in conjunction with the Environment Agency and CLP Envirogas Ltd. A draft has been received and is being reviewed, prior to agreement and submission to the Environment Agency.

Regular monitoring, requested by the Environment Agency of CLP Envirogas Ltd continues and is likely to remain in place.

Installation of horizontal wells in active operational areas continues as the site develops, in line with the approved LFGMP.

The LFGMP has been reviewed and issued to the Environment Agency, with comments received from the regulator on 2 June 2023 following the submission on 15 January 2023. The draft LFGMP has been discussed with NuLBC and was submitted to the Environment Agency on 14 August 2023 for approval, with further comments received 6 October. A meeting to discuss the LFGMP was undertaken on 18 October 2023 with the EA, with a further submission made 22 January 2023. Discussions have been held with the EA to facilitate approval of the LFGMP. Further comments received by WQL for consideration, which should see approval of the plan.

The EA guidance relating to landfill operations has been updated and varies significantly in key areas. This has the potential to impact the approval of the LFGMP amongst other plans submitted to the EA by WQL which it is seeking approval. A request to clarify the position and the potential on-impact has been made to the EA.

## KPI 12 Leachate Management Plan

In relation to the LMP, an addition 5 leachate wells have been successfully installed into the WQ facility. These have been installed utilising steel casing, increasing the robustness of the installed infrastructure to settlement and compaction of waste. replacement leachate wells at the facility.

A pump-trial plan, agree to be conducted as part of the LMP submission has been agree with the EA and will be commenced through Q1 2024.

## KPI 13- 15

### 13 December 2023 – CAR report 0485800

General site visit undertaken. Two CCS2 compliance scores received:

2.4.1 – Management System & Operating procedures

3.3.1 – Odour

An odour was alleged to have been detected by the EA on 11 December 2023, adjacent to the site. This was not communicated to WQL until CAR report received 21 December 2023. No odour was observed by the EA on the visit to WQ on 13 December 2023, although the EA observation from 11 December is reflected within CAR 0485800.