

CLOCKHOUSE QUARRY DEPOSIT FOR RECOVERY SITE**MONITORING MANAGEMENT PLAN****December 2025**

Site	Clockhouse Quarry Deposit for Recovery Site
Document Title	Monitoring Management Plan December 2025
Location of controlled copy	1. Environment Department Folder 2. Environmental Permits Folder

Document Review History

Date	Description	Summary of Changes
December 2025	V1	New document

CONTENTS

1. Introduction
2. Monitoring Regime
3. Assessment Levels
4. Contingency Action Plans

FIGURES

Figure 1 - Monitoring Locations

1.0 INTRODUCTION

- 1.1 This Monitoring Management Plan (MMP) for Clockhouse Quarry (the Site) has been produced in support of an application for an Environmental Permit for a Deposit for Recovery (DfR) activity.
- 1.2 The Environmental Monitoring regime is detailed in Section 2. Compliance Limits and Action Levels are detailed in Section 3. Contingency Actions to be implemented in the event of a compliance limit or action level exceedance are detailed in Section 4. Locations of monitoring points are shown in Figure 1.
- 1.3 An inspection to determine that all monitoring infrastructure is in a fit for purpose condition is conducted during every scheduled monitoring site visit. The results are recorded within SUEZ's internal electronic systems and where necessary, remediation plans are implemented.
- 1.4 SUEZ has internal procedures for the monitoring and sampling of landfill gases, surface waters, groundwater and leachate. These procedures will be adhered to in monitoring at the site:
 - i. G01 – Procedure to Measure Landfill and Subterranean Gas
 - ii. L01 – Procedure to Measure Liquid Levels
 - iii. S01 – Procedure to Sample Liquids
 - iiii. A01 – Procedure to Measure Surface Emissions in AirCopies are available upon request.
- 1.5 SUEZ' management systems are certified to ISO 9001, 14001 and 45001 standards.
- 1.6 A suitable UKAS accredited laboratory will carry out all aqueous sample analysis. Approved suppliers will be used for any other analysis requirements.
- 1.7 All monitoring data and sampling results are stored electronically on a SUEZ monitoring database, which is backed up daily and stored for a minimum period of 6 years.
- 1.8 The monitoring data detailed within this MMP will be made available to the Environment Agency. Monitoring data submissions will be made in accordance with the timescales in the permit.

2.0 MONITORING REGIME

Surface Water		
Monitoring Point	Frequency	Determinand
Internal Ponds ¹	Monthly	Ammoniacal Nitrogen, Chloride, Electrical Conductivity, pH, Suspended Solids
<u>Surface Water</u> Discharge 1 At confluence with Fylls Brook	Monthly	Ammoniacal Nitrogen, Chloride, Electrical Conductivity, pH, Suspended Solids
	Annually	<i>As monthly plus:</i> Alkalinity, Calcium, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Sodium, Sulphate, Total Oxidised Nitrogen

1: Samples for internal assessment will be taken from surface water bodies within the site prior to discharge via Discharge 1.

Groundwater		
Monitoring Point	Frequency	Determinand
<u>Up gradient</u> BH22/01, BH22/03	Quarterly	Ammoniacal Nitrogen, Chloride, Electrical Conductivity, pH, Sulphate
<u>Down gradient</u> BH22/05, BH22/09	Annually	<i>As quarterly plus:</i> Total Alkalinity, Arsenic, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Sodium, Zinc VOC suite to include BTEX
BH22/01, BH22/02, BH22/03, BH22/05, BH22/08, BH22/09, BH22/10, BH22/12	Quarterly	Groundwater level (mAOD)
	Annually	Monitoring well base (m bgl)

3.0 COMPLIANCE LIMITS AND ASSESSMENT LEVELS

Surface Water – Action and Compliance Limits			
Monitoring Point	Determinand	Action Level (mg/l)	Compliance Limit (mg/l)*
Internal Ponds ¹ Confluence with Fylls Brook ¹	Ammoniacal nitrogen	0.61	N/A
	Chloride	64	N/A
	Nickel	0.0038	N/A
Discharge 1	Flow Rate	N/A	2,880m ³ /day
	Ammoniacal nitrogen	0.61	1.2
	Chloride	64	120
	Lead	N/A	0.0002
	Nickel	0.0038	0.012
	Suspended Solids	N/A	40

1: Samples for internal assessment only

*: The above limits are only applicable to flowing discharge(s) from the site through point Discharge 1.

Groundwater – Action Levels		
Monitoring Point	Determinand	Action Level (mg/l)
BH22/05, BH22/09	Ammoniacal nitrogen	1.2
	Chloride	120
	Lead	0.0002
	Nickel	0.012

4.0 CONTINGENCY ACTIONS

Surface Water Compliance Limit Contingency Action Plan		
Contingency Action	Response Time	Responsibility
Inform Operations Manager, EIR Manager/Advisor	24 hours	Aftercare Team
Inform Environment Agency via Part A Notification	24 hours	EIR Team
In the case of an obvious pollution incident, establish the source and instigate preventative/ corrective actions	Immediate	Operations Manager
Cease all discharge of suspected contaminated surface water	24 hours	Operations Manager
Verify accuracy of test with laboratory and QA procedures and trend analysis	1 week	Aftercare Team
Undertake repeat sampling within 1 month of the 1 st sample date (this will generally be within 2 weeks of receiving the results)	1 month	Aftercare Team
Update EA via Part B Notification	1 month	EIR Team
Propose remedial actions	In agreement with the EA	Operations Manager/EIR Team/Risk Team

Surface Water/Groundwater Action Level Contingency Action Plan		
Contingency Action	Response Time	Responsibility
Inform Operations Manager, EIR Manager/Advisor	24 hours	Aftercare Team
In the case of an obvious pollution incident, establish the source and instigate preventative/ corrective actions	Immediate	Operations Manager
Cease all discharge of suspected contaminated surface water	24 hours	Operations Manager
Verify accuracy of test with laboratory and QA procedures and trend analysis	1 week	Aftercare Team
Undertake repeat sampling within 1 month of the 1 st sample date (this will generally be within 2 weeks of receiving the results)	1 month	Aftercare Team
Propose remedial actions	In agreement with the EA	Operations Manager/EIR Team/Risk Team



Figure 1

Monitoring Locations