



Monitoring Plan

Banana Field

NRS Meriden Aggregates Ltd.

Document Reference: 415/9—R1.1 – Monitoring Plan



Minerals
Waste
Environment

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1.0 Introduction

1.1 This Environmental Monitoring Plan has been produced as part of a bespoke Deposit for Recovery permit application for NRS Meriden Banana Field, located to the north of Cornets End Lane and the west of the wider NRS Complex, Meriden, CV7 7LG ('The Site').

1.1.1 The Site is located to the west of the NRS Meriden quarry complex, with Cornets End Lane abutting the southern and southwestern boundary. The Site covers an area of approximately 5.63ha. The proposed permit boundary is shown on Document ref: *415/9-Site Layout Plan*.

1.1.2 The Site is currently an active quarry site.

1.1.3 The Site is abutted to the:

- North by NRS quarrying operations.
- East by the NRS Meriden complex (including quarries, office buildings and processing areas).
- South by Cornets End Lane and small industrial areas.
- West by Cornets End Lane, agricultural fields and a farm.

1.2 Operational Overview

1.2.1 The proposed operations constitute a recovery option to use inert waste to achieve the final contours and restoration design approved in planning permission PL/2018/02524/MWMAJ.

1.2.2 The deposit of waste for recovery would achieve the approved contour levels in the restoration scheme. The depth of inert waste would vary across The Site in order to assimilate into the surroundings. The total quantity of waste required is approximately 1,308,000 tonnes.

1.2.3 Waste would arrive at The Site via HGV, where it would be unloaded and emplaced / spread by bulldozer(s).

2.0 Groundwater

2.1.1 Groundwater will be monitored quarterly. Samples will be collected from the groundwater monitoring wells and boreholes (see Drawing ref: 415-9 *Monitoring Locations Plan*).

2.1.2 All boreholes will be monitored for both water level and chemistry. Boreholes PZA4, PZA17, PZA16, BH5, BH4 and BH4D are upstream, and boreholes PZA8, PZA9, PZA19 and BH3 are downstream (Firth HRA). The limit levels are shown in Table 1.

Table 1: List of contaminants for groundwater and surface water monitoring

Substance	Class ¹	DWS ² (mg.L ⁻¹)	EQS ⁵ (mg.L ⁻¹)	MRV (mg.L ⁻¹)	Background conc. ⁸ (mg.L ⁻¹)	EAL (mg.L ⁻¹)
Antimony	NH	0.005	-	-	No data	0.005
Arsenic	H	0.01	0.05	0.005 ⁷	No data	0.005
Barium	NH	1.3 ³	-	-	No data	1.3
Cadmium	NH	0.005	0.15	-	<0.006	0.005
Chromium	NH	0.05	0.0047	-	0.005	0.0047 ⁹
Copper	NH	2	0.0347	-	<0.09	0.0347
Lead	H	0.01	0.00996	0.0002 ⁷	<0.006	0.0002
Mercury	H	0.001	0.00007	0.00001 ⁶	0.00002	0.00001 ⁹
Nickel	NH	0.02	0.0163	-	0.041	0.0163 ⁹
Selenium	NH	0.01	-	-	No data	0.01
Zinc	NH	3 ⁴	0.04	-	0.03	0.04
Chloride	NH	250	250	-	21.6	250
Fluoride	NH	1.5	-	-	No data	1.5
Sulphate	NH	250	400	-	43.7	250
Benzo(a) pyrene	H	0.00001	1.7 x 10 ⁻⁷	5 x 10 ⁻⁸ ⁷	<0.00001	5 x 10 ⁻⁸
Naphthalene	NH	-	0.002	-	0.00002	0.002
Benzene	H	0.001	0.01	0.001 ⁶	No data	0.001 ¹

2.1.3 Groundwater monitoring is to be undertaken monthly for the first 12 months starting prior to the first acceptance of waste, and after 12 months frequency would be reduced to quarterly provided concentrations of the identified contaminants continue to indicate low variability.

3.0 Surface Water Monitoring

- 3.1 Surface water monitoring will be undertaken at two points, one upstream and one downstream on the Cornets End Brook. These points can be seen on Drawing ref: *415-9 Monitoring Plan*.
- 3.2 Surface water monitoring will be undertaken monthly for the first 12 months, and after 12 months frequency would be reduced to quarterly provided concentrations of the identified contaminants continue to indicate low variability.
- 3.3 The contaminants measured are shown in Table 1.

4.0 Water Monitoring – Actions to be Taken in Response to Exceedance

- 4.1 Should any of the other water monitoring indicate a breach in the limit levels, monitoring of the breached monitoring points and / or surface water monitoring points would be increased to weekly until levels are below the limit levels for two consecutive sets of results. Only the contaminant(s) where compliance levels have been breached would be tested for in the additional monitoring.
- 4.2 Should levels fail to fall back into compliance following two subsequent monitoring breaches, an investigation is to be immediately launched to identify the cause of the breach to include:
- Immediate internal notification to the site manager
 - Confirm the exceedance / trend, including further monitoring if appropriate
 - Review of recent site activities, waste inputs and storage practices
 - Identification of the likely source and assessment of the potential for breaching compliance limits

- Implementation of corrective / mitigation measures to prevent further non-compliance
- Notification to the Environment Agency within the timescales required by the permit.

4.3 Remedial actions, including isolating imports of certain materials or ceasing specific or all operations, will be assessed during the investigation and agreed if this is deemed necessary by the operator and the EA.

4.4 Post investigation the breach would be recorded with a full write-up of the root cause and steps taken to correct. Remedial measures would be revised and the management system or monitoring plan updated as appropriate.

4.5 In all cases, breaches would be reported through the appropriate form to the EA.

5.0 Dust and Air Quality Monitoring

5.1 Visual monitoring of dust will be carried out daily, at the start and end of operations, as well as at least once during each day. The visual monitoring is to be carried out by trained staff or the TCM, and will be a visual check to ensure that dust is not leaving the site boundary (monitoring is through visual checks on the site boundary – if it is clear dust is escaping past the boundary and appearing on nearby flora, buildings and roads, this will prompt an investigation to the cause of the dust and whether the site operations need to be altered / halted).

5.2 Results of the visual monitoring is to be recorded on a visual monitoring checklist and records retained during the lifetime of the Permit. The DEMP (Document ref: *415-9_DEMP*) details the procedures should dust be seen to be leaving the site boundary.