

## REPORT

# Woodsmith Mine - Construction Environmental Management Plan

Client: Sirius Minerals plc

Reference: 40-RHD-WS-70-EN-PL-0014 REV 0

Revision: 00/Final

Date: 04 April 2017

HASKONINGDHV UK LTD.

Rightwell House  
Rightwell East  
Bretton  
Peterborough  
PE3 8DW  
Industry & Buildings  
VAT registration number: 792428892

+ T  
F  
E  
W

Document title: Woodsmith Mine - Construction Environmental Management Plan

Document short title: Phase 3 - Woodsmith Mine Construction Environmental Management Plan

Reference: 40-RHD-WS-70-EN-PL-0014 REV 0

Revision: 00/Final

Date: 04 April 2017

Project name: Sirius North Yorkshire Polyhalite Project

Project number: PB1110

Author(s): Wendy Johnston

Drafted by: Wendy Johnston

Checked by: Claire Smith

Date / initials: 14/03/2017 CS

Approved by: Gary Bower

Date / initials: 03/04/2017 GB

Classification

Project related



## Disclaimer

*No part of these specifications/printed matter may be reproduced and/or published by print, photocopy, microfilm or by any other means, without the prior written permission of HaskoningDHV UK Ltd.; nor may they be used, without such permission, for any purposes other than that for which they were produced. HaskoningDHV UK Ltd. accepts no responsibility or liability for these specifications/printed matter to any party other than the persons by whom it was commissioned and as concluded under that Appointment. The integrated QHSE management system of HaskoningDHV UK Ltd. has been certified in accordance with ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007.*

## Table of Contents

### Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
1.1	Purpose of Document	1
1.2	Phase 3	4
1.3	Scope of this Document	5
<b>2</b>	<b>Environmental Management Framework</b>	<b>6</b>
2.1	Structure and Responsibilities	6
2.2	Environmental Policy	8
2.3	Project Management Plans (PMPs)	8
2.4	Objectives and Targets	9
2.5	Training, Awareness and Competence	9
2.6	Internal Communication	9
2.7	External Communication	10
2.8	Monitoring of Compliance	10
2.9	Complaints Procedure	11
2.10	Information in the PMPs, EMP and RAMS	11
<b>3</b>	<b>Description of Site</b>	<b>13</b>
3.1	Fencing and Security of the Site	13
3.2	Site Compounds	13
3.3	Welfare facilities	13
3.4	Lighting	14
3.5	Materials Storage	14
3.6	Wheel Washing Facilities	14
3.7	Site housekeeping	14
3.8	Information in the PMPs, EMP and RAMs	15
<b>4</b>	<b>Traffic</b>	<b>15</b>
4.1	Introduction	15
4.2	Construction Traffic Management Plan (CTMP)	16
4.3	Parking and Deliveries to Site	16
4.4	Enforcement System for Breaches of Traffic Management Requirements	17
4.5	Information in the PMPs and RAMS	17

<b>5</b>	<b>Noise and Vibration</b>	<b>18</b>
5.1	Introduction	18
5.2	Noise and Vibration Management Plan	18
5.3	Information in the PMPs and EMP	18
<b>6</b>	<b>Air Quality and Dust Management</b>	<b>18</b>
6.1	Introduction	18
6.2	Construction Vehicle and Plant Management Plan	19
6.3	Dust Management Plan	19
6.4	Information in the PMPs and EMP	20
<b>7</b>	<b>Nature Conservation</b>	<b>20</b>
7.1	Introduction	20
7.2	Protected Species and Precautionary Method of Working for Site Clearance	21
7.3	Tree Protection Areas	21
7.4	Protected Habitats within the North York Moors Natura 2000 Site	21
7.5	Environmental Enhancement	22
<b>8</b>	<b>Archaeology</b>	<b>22</b>
8.1	Introduction	22
8.2	Written Scheme of Investigation	22
8.3	Information in the PMPs	23
<b>9</b>	<b>Hydrogeology, Water Quality and Drainage</b>	<b>23</b>
9.1	Introduction and Generic Water Protection Issues	23
9.2	Groundwater Water Management	23
9.3	Surface Water Management	24
9.4	Silt and Pollutant Management	24
9.5	Retention and Improvement of Ephemeral Surface Water Channels	24
9.6	Information in the PMPs, RAMS and EMP	25
<b>10</b>	<b>Soils and Contaminated Land</b>	<b>25</b>
10.1	Introduction	25
10.2	Top Soil and Sub-Soil Management	25
10.3	Contaminated land	26
10.4	Information in the PMPs, RAMS and EMP	26
<b>11</b>	<b>Materials and Waste</b>	<b>27</b>
11.1	Introduction	27

11.2	Location and Nature of Storage Areas	27
11.3	Fuel Oil Storage and Refuelling on Site	27
11.4	General Management of Non-Extractive Waste	28
11.5	Information in the PMPs, RAMs and EMP	28
<b>12</b>	<b>Incident and Emergency Planning</b>	<b>29</b>
12.2	Information in the PMPs, RAMS and EMP	29

### Table of Tables

Table 1-1	Condition NYMNP-93: Construction Environmental Management Plan .....	1
Table 1-2	Condition NYMNP-68: Final Details of Temporary Structures .....	3
Table 1-3	Project Management Plans and Risk Assessment and Method Statements ....	5
Table 2-1	Roles and Responsibilities .....	7
Table 2-2	Location of Environmental Management Framework Information .....	11
Table 3-1	Location of Information within the Project Management Plans.....	15
Table 4-1	Location of Information relating to Traffic .....	17
Table 5-1	Location of Information relating to Noise and Vibration.....	18
Table 6-1	Example Dust Management Mitigation.....	20
Table 6-2	Location of Information relating to Air Quality and Dust.....	20
Table 8-1	Location of Information relating to Archaeology.....	23
Table 9-1	Location of Information relating to Hydrogeology, Water Quality & Drainage	25
Table 10-1	Location of Information relating to Soils and Contaminated Land .....	26
Table 11-1	Waste Streams and Management Strategies .....	28
Table 11-2	Location of Information relating to Materials and Waste.....	28
Table 12-1	Location of Information relating to Incident and Emergency Planning .....	29

### Appendices

Appendix 1a	AMC UK Woodsmith Mine Phase 3 Project Management Plan
Appendix 1b	NMC Woodsmith Mine Phase 3 Project Management Plan
Appendix 2a	AMC Woodsmith Mine Phase 3 Concrete Batch Plant Set Up RAMS
Appendix 2b	NMC Woodsmith Mine Phase 3 Enabling Works RAMS
Appendix 2c	W J Groundwater Woodsmith Mine Phase 3 Dewatering RAMS
Appendix 3a	North Midlands Construction's ISO40001 Certificate
Appendix 3b	North Midlands Construction's Environmental Policy
Appendix 4	Community and Stakeholder Engagement Plan
Appendix 5	Sample Environmental Inspection Record Form
Appendix 6	Complaints Procedure

**Appendix 7 Temporary Structures**

**Appendix 8 Woodsmith Mine Phase 3 Dust Management Plan**

**Appendix 9 Precautionary Method of Working for Site Clearance**

**Appendix 10 Woodsmith Mine Phase 3 Arboricultural Method Statement**

## 1 Introduction

### 1.1 Purpose of Document

- 1.1.1 In 2014 a planning application (reference NYM/2014/0676/MEIA) was submitted to the North York Moors National Park Authority (NYMNPAA) for permission to develop a polyhalite mine and underground Mineral Transport System (MTS). Planning consent was subsequently granted in 2015 subject to conditions.
- 1.1.2 This Construction Environmental Management Plan (CEMP) has been prepared on behalf of Sirius Minerals plc (Sirius Minerals) and details the requirements with respect to the Phase 3 Works at Woodsmith Mine ('Phase 3') of the development only (as described in paragraph 1.2.1 below).
- 1.1.3 This document is required to partially discharge NYMNPAA-93, and has been prepared in accordance with current good practice. This planning condition states that:

Table 1-1 Condition NYMNPAA-93: Construction Environmental Management Plan

NYMNPAA-93	Compliance with Condition NYMNPAA 93
Prior to the commencement of each phase of the development in accordance with the approved Phasing Plan at either Dove's Nest Farm or Lady Cross Plantation, an updated CEMP shall be based on the approved Construction Method Statement (CMS) and shall be submitted to and approved in writing by the MPA in consultation with the Environment Agency in respect of the area concerned. The CEMP shall include details of:	<p>This version of the CEMP is for Phase 3 as defined in Section 1.2 below.</p> <p>Two previous versions of the CEMP have been produced for the offsite highways improvements schemes (Phase 1) and Site Preparation (Phase 2).</p>
The size, location and design of any site compounds, including how any potentially polluting materials will be stored to minimise the risk of pollution;	Section 3.3, Section 3.6 and Section 11.2 Appendix 1a: Drawing 40-ARI-WS-71-CI-DR-1050 Appendix 1b: Drawing 40-NMC-WS-70-FC-DR-0002
An Incident Response Plan to deal with any pollution that may occur during the course of construction;	Section 12.2
A scheme for the recycling/disposing of waste resulting from demolition and construction works;	Section 11.2 and Section 11.5
Storage of waste not covered by the Mine Waste Directive;	Section 11.2 and Section 11.5 Appendix 1b: Drawing 40-NMC-WS-70-FC-DR-0002
Measures to control the glare from on-site lighting;	Section 3.4 Appendix 1a Appendix 1b: Drawing 40-NMC-WS-70-FC-DR-0002
Measures to manage deliveries by HGV including routing and timing for deliveries and details of the penalty system for breaches of the agreed control;	Section 4.2, Section 4.3, Section 4.4
Temporary traffic management;	Not applicable to this phase of Works
The provision of a Dust Management Plan relating to Phase 1 of the construction period (earth works and	Section 6.3 Appendix 8

NYMNPA-93	Compliance with Condition NYMNPA 93
<p>bund formation) and Polyhalite handling and stockpiling to include dust generation modelling so as to identify sensitive receptors; likely dust generation and its disposition during the construction phases and operation over time and under different weather conditions; the avoidance and mitigation measures required to ensure dust deposition levels at the sensitive receptors are maintained at the residual levels identified in the approved EIA, and monitoring arrangements. The Dust Management Plan must comply with the criteria set out in the 'Dust and Air Emission Mitigation Measures' best practice guidance for control of dust on construction sites from the Institute of Air Quality Management 2012. The monitoring arrangements will include dust deposition or dust flux or real-time PM10 continuous monitoring locations; baseline dust monitoring at least three months before construction commences; daily on-site and off-site inspections at monitoring locations with results recorded in a log to be made available to the MPA on request, and more frequent monitoring during periods of high dust generation;</p>	<p>It should be noted that while this condition relates to 'Phase 1' of the development, this relates to Phase 1 as identified in the documentation submitted in with the planning application.</p> <p>As outlined in paragraph 1.1.5 of this CEMP, Sirius has renamed the Phases and while we refer to 'Phase 3' in this CEMP, this Phase falls within the scope of the original Phase 1 Works.</p>
<p>In the event that there is insufficient clay within the Lady Cross Plantation site to form the 1m deep basal layer beneath the spoil storage area, a contingency plan to address the importation of clay, including the source, quantity and quality of such material, and how adverse effects on the water environment would be avoided;</p>	<p>Lady Cross Plantation is not covered in this CEMP as works at that site have been deferred.</p>
<p>How the requirements of the approved CEMP will be disseminated to all relevant staff/ Contractor's throughout the construction period;</p>	<p>Section 2.5</p>
<p>The location of the site notice board;</p>	<p>Section 2.7</p>
<p>A scheme for parking, loading, unloading during construction;</p>	<p>Section 4.3</p>
<p>A scheme for security and lighting during construction;</p>	<p>Section 3.1 and 3.4</p>
<p>A protocol for the replenishment of tanks and containers including that all refuelling of vehicles, generators, plant and equipment shall be supervised and shall take place within a suitable bunded, impervious hardstanding;</p>	<p>Section 11.3</p>
<p>Contingency proposals for if fuel cannot be delivered for the generators, e.g. due to adverse weather;</p>	<p>Section 11.3</p>
<p>How those artificial or historically straightened ephemeral surface water channels referenced in sections 15.7.22-15.7.24 of chapter 15 of part 2 of the ES are to be retained wherever possible, and enhanced to increase their capacity (e.g. through the introduction of meanders) and to increase their ability to capture</p>	<p>Section 9.5</p>



NYMNPA-93	Compliance with Condition NYMNPA 93
sediment (e.g. through suitable planting);	
Proposals / contingency plans for waste not managed as part of the Mine Waste Permit comprising the storage and management of temporary mining waste stored on-site for less than three years (e.g. Pyritic Mudstone); non-inert and non-hazardous materials stored for less than one year, and unexpected hazardous waste stored for less than six months, including measures to prevent the dispersal of dust, leachate and surface water runoff;	Section 6.3, Section 9.3, Section 9.7, Section 11.5
A Precautionary Method of Working for Site Clearance (PMWSP) which shall be submitted to and agreed in writing by the MPA prior to commencement of Preparatory Works and shall be adhered to thereafter. The PMSWP shall set out proposals for tree clearance and the demolition of structures and shall include that between March and September each year surveys of areas to be cleared should occur no less than 48 hours before clearance occurs so that occupied wild bird nests can be identified and prevented from being destroyed;	Section 2.15 Appendix 6 and Appendix 7
Alarms fitted to mobile plant and vehicles for the purposes of warning pedestrians of their movements.	Section 4.3.2

1.1.4 This document also provides the information necessary to partially discharge condition NYMNPA-68 for Phase 3. This planning condition states that:

Table 1-2 Condition NYMNPA-68: Final Details of Temporary Structures

NYMNPA-68	Compliance with Condition NYMNPA 68
Final details of all temporary structures, including samples of materials proposed including colour shall be submitted to and approved by the MPA prior to construction. The temporary Structures as approved shall be implemented in complete accordance with the details agreed.	Section 3.5.2 Appendix 7
For the avoidance of doubt this also includes colours of generator stacks.	No generator stacks are required for Phase 3 in addition to those supplied on the plant itself.

1.1.5 This document only details activities required for Phase 3 at Woodsmith Mine associated with the Sirius North Yorkshire Polyhalite Project ('the project'). It does not include any activities at Lady Cross Plantation as these Works have been deferred. Updates to this plan will be prepared for subsequent construction phases and following any design or method change. The NYMNPA, as well as the Environment Agency and Natural England, agreed that they support this approach in meetings held in April 2016.

## 1.2 Phase 3

### 1.2.1 Phase 3 comprises:

- General site clearance including demolition of all farm buildings and sheds, and localised tree and scrub clearance, as shown on drawing 40-ARI-WS-71-CI-DR-1051.
- Excavation and construction of the south western extension of the upper tiered working platform at around 203m AOD, as shown on drawing 40-ARI-WS-71-CI-DR-1053.
- Excavation and construction of the Platform for the Construction Welfare Facility, Parking Area and Concrete Batching Plant, as shown on drawing 40-ARI-WS-71-CI-DR-1053.
- Construction of temporary and permanent soil mounds, including the basal liner for a future storage facility in the northeast corner of the site for non-hazardous non-inert spoil and three topsoil, subsoil and inert material storage bunds in the southwestern area of the site, as shown on drawings 40-ARI-WS-71-CI-DR-1053 and 40-ARI-WS-71-CI-DR-1055, with earthworks volumes presented in 40-ARI-WS-71-CI-DR-1054.
- Construction of surface water drainage, a temporary surface water attenuation pond and temporary wetland in the southern area and two permanent attenuation ponds and two wetland areas in the north eastern area, as shown on Drawing 40-ARI-WS-71-CI-DR-1050;
- Construction of a spring and groundwater drainage layer in the north eastern area, discharging into a wetland area, as shown in drawing 40-ARI-WS-71-CI-DR-1080.
- Installation and commissioning of temporary dewatering as shown in drawing 40-ARI-WS-71-CI-DR-1058.
- Erection on site of the Concrete Batching Plant as shown in drawing 40-ARI-WS-71-CI-DR-1050, complete with reticulated water supplies and tanks.
- Construction of the drilling platform and temporary saline lagoon area for the groundwater reinjection well as shown in drawing 40-ARI-WS-71-CI-DR-1057.
- Establishment of construction welfare and security facilities - complete with hook-up of power, communications & water supplies and new waste water collection facilities as shown on drawing 40-ARI-WS-71-CI-DR-1050.

1.2.2 Phase 3 will be carried out by two Principal Contractors, namely Associated Mining Construction Inc. (AMC UK) and North Midland Construction Ltd (NMC Ltd) ('the Contractors'). A third contractor, which will be sub-contracted to NMC Ltd, will undertake the dewatering works (see paragraph 1.2.4 below). Each contractor will be undertaking specific elements of Phase 3. However, all contractors will be adhering to the requirements of this CEMP and therefore with the exception of the information in Section 3 below relating to the description of the site, the information within this document applies to all contractors unless specified otherwise.

1.2.3 The works being undertaken by AMC UK are detailed in Section 1.1.2 of the AMC Phase 3 Project Management Plan (PMP), a copy of which is provided in **Appendix 1a** of this CEMP. The works include:

- setting up the concrete batching plant; and
- setting up the welfare facilities associated with the concrete batching plant.

1.2.4 All of the remaining activities (as listed in Paragraph 1.2.1) are being undertaken by NMC Ltd, with the exception of the installation and commissioning of temporary dewatering which will be undertaken by W J Groundwater, sub-contractors to NMC Ltd. Details on the works being undertaken by NMC Ltd are detailed in Section 1(a) of the NMC Phase 3 PMP, a copy of which is provided in **Appendix 1b** of this CEMP.

1.2.5 All of the remaining activities (as listed in Paragraph 1.2.1) are being undertaken by NMC Ltd, with the exception of the installation and commissioning of temporary dewatering which will be undertaken by W J Groundwater. Details on the works being undertaken by NMC Ltd are detailed in Section 1(a) of the NMC UK Phase 3 PMP, copies of which can be found in **Appendix 1b** of this CEMP.

### 1.3 Scope of this Document

1.3.1 This CEMP details how Phase 3 will be planned, monitored and managed in an environmentally responsible manner. It outlines the management framework for the environmental requirements, commitments, and performance targets associated with the planning and implementation of Phase 3 of the project only in accordance with planning permission NYM/2014/0676/MEIA.

1.3.2 The Contractors have developed specific PMPs and Risk Assessment and Method Statement (RAMS) to manage the Phase 3 Works. AMC UK has also prepared an Environmental Management Plan (EMP) for this phase as part of its PMP. These documents and where they are provided as Appendices in the CEMP is shown in **Table 1-3** below.

Table 1-3 *Project Management Plans and Risk Assessment and Method Statements*

Document	Location in CEMP
AMC UK Woodsmith Mine Phase 3 Project Management Plan	Appendix 1a
NMC Woodsmith Mine Phase 3 Project Management Plan	Appendix 1b
AMC UK Woodsmith Mine Phase 3 Environmental Management Plan	Appendix 1a
AMC Woodsmith Mine Phase 3 Concrete Batch Plant Set Up RAMS	Appendix 2a
NMC Woodsmith Mine Phase 3 Enabling Works RAMS	Appendix 2b
W J Groundwater Woodsmith Mine Phase 3 Dewatering RAMS	Appendix 2c
NMC ISO40001 Certificate	Appendix 3a
NMC Environmental Policy	Appendix 3b
Community and Stakeholder Engagement Plan	Appendix 4
Sample Environmental Inspection Record Form	Appendix 5
Complaints Procedure	Appendix 6
Woodsmith Mine Phase 3 Dust Management Plan	Appendix 8
Precautionary Method of Working for Site Clearance	Appendix 9
Woodsmith Mine Phase 3 Arboricultural Method Statement	Appendix 10

- 1.3.3 This CEMP includes many of the policies and procedures that form part of a certified environmental management system. It sets out how environmental works will be undertaken, and how the environment will be protected during these works.
- 1.3.4 This CEMP refers to several management plans, which have been prepared to partially discharge a number of planning conditions. Collectively these plans incorporate all mitigation measures relevant to Phase 3 as identified in the original planning application (condition NYMNPA-06 refers). For completeness, the CEMP should be read in conjunction with the documentation submitted to partially discharge the following conditions:
- Condition NYMNPA-18: Noise and Vibration Management Plan;
  - Condition NYMNPA-34: Construction Traffic Management Plan;
  - Condition NYMNPA-46: Hydrogeological Risk Assessment;
  - Condition NYMNPA-47: Hydro-Geological Risk Assessment;
  - Condition NYMNPA-52: Protected Species Management Plans;
  - Condition-NYMNPA-60: Surface Water Drainage Scheme;
  - Condition NYMNPA-64: Temporary Boundary Treatments;
  - Condition NYMNPA-70: Tree Protection and Clearance;
  - Condition NYMNPA-76: Soil Management Plan;
  - Condition NYMNPA-79: Surface Water Management Plan;
  - Condition NYMNPA-91: Emissions to Atmosphere;
  - Condition NYMNPA-92: Construction Vehicle and Plant Management Plan; and
  - Condition NYMNPA-95: Written Scheme of Investigation.
- 1.3.5 The format of this document has changed since the previous versions submitted in January 2017 and February 2017 to partially discharge condition NYMNPA-93 for the Phase 1: Highways Improvements Schemes Works and the Phase 2 Site Establishment Works. This version builds on the information within these previous versions but has been restructured following, where relevant, the structure of the Environmental Statement (ES) for the development.
- 1.3.6 Where other more detailed documentation about environmental issues exists, this CEMP summarises and references these documents. At the end of each section, where required, a summary table detailing the section(s) of the PMPs, EMP and/or RAMS in which further details of the issues can be found is identified.
- 1.3.7 The CEMP will remain a live document, being reviewed and updated in consultation with the appointed Contractors or sub-Contractor(s) as required. Each of these updated CEMPs will be submitted to NYMNPA for approval prior to the start of each phase of construction.

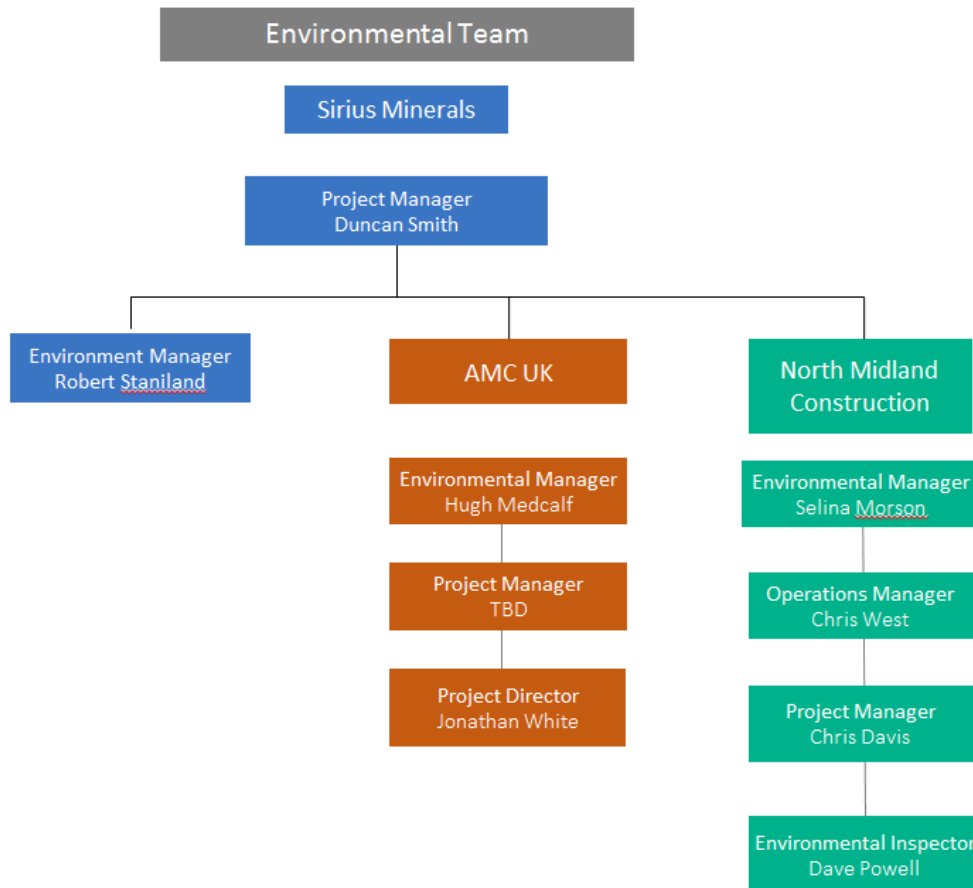
## **2 Environmental Management Framework**

### **2.1 Structure and Responsibilities**

- 2.1.1 This CEMP addresses those environmental matters within the responsibility of Sirius Minerals and the Contractors engaged on its behalf to deliver the Phase 3 Works. While overall responsibility for compliance with environmental and approvals requirements will remain with Sirius Minerals, all Contractors working on site are accountable for undertaking the construction activities in line with the requirements of this CEMP as well as all legal and other requirements imposed via permits and licences.

2.1.2 The organogram in **Figure 2.1** shows the lines of responsibility for environmental management during the Phase 3 Works.

Figure 2-1 Structure of the Environmental Team



2.1.3 **Table 2-1** below outlines the key responsibilities of each of the roles. These are also outlined, in more detail in the PMPs prepared by each of the Principal Contractors. The relevant sections in these documents in which more detail can be found is identified in **Table 2-2**.

Table 2-1 Roles and Responsibilities

Role	Responsibilities
Employer's Project Manager	Overall responsibility for leading the construction phase to a successful conclusion, ensuring that the legal and planning requirements of the overall project are complied with.
Employer's Environment Manager	Responsibility for ensuring that all environmental legislation is fully complied with, monitoring works on site and providing feedback to the Employer's Project Manager and the Contractor's Environmental Manager as required.
Contractor's Project Director / Operations Manager	Overall responsibility for the projects safety, health and environmental management, resources, procedures and support to meet the arrangements documented in this plan.
Contractor's Project	Control and manage on site construction activities, manage sub-contract activities on

Role	Responsibilities
Manager	site, ensure client satisfaction throughout construction process, implement best practice regarding QSHE procedures.
Contractor's Environmental Manager	Advice, support, and monitoring of environmental management policies and procedures to meet the arrangements documented in the CEMP, the PMP and RAMS as well as current legislation.
Contractor's Environmental Inspector	Monitoring and auditing the Contractor's compliance with environmental legislation and policy, and assessing compliance with the requirements of the CEMP, the PMP and RAMS.

## 2.2 Environmental Policy

2.2.1 NMC Ltd operates an Environmental Management System that has been certified to ISO14001 and its ISO14001 certificate is appended to this document (**Appendix 3a**). AMC UK procedures are not certified to ISO14001 although they have their own Environmental Management System which is described in their EMP (**Appendix 1a**). NMC Ltd.'s Environmental Policy (**Appendix 3b**) has been prepared in accordance with the recognised ISO14001 procedures and this will be adhered to by both NMC Ltd and W J Groundwater.

## 2.3 Project Management Plans (PMPs)

2.3.1 The PMPs encompass all activities and the identified risks for Phase 3 Works at Woodsmith Mine, detailing the Safety, Health, and Environmental (SHE) requirements for each. Both PMPs follow a similar structure. The first section of each PMP contains details about the works and the contract arrangements. Section 2 provides details of the communication strategies to be implemented during Phase 3, including information about site layout and security arrangements, as well as information about the induction and training of staff. Section 3 identifies significant risks and provides details of the Quality Plans, Health and Safety Plans, and Environmental Plans that will be implemented during Phase 3. The remaining sections of the PMPs relate to specific client requirements, data gathering, collation and storage processes that will be implemented during Phase 3.

### Environmental Aspects and Impacts

2.3.2 All activities undertaken on site have been subject to an Environmental Aspects and Impacts Assessment (EAIA) which built on the information included the Environmental Statement (ES). The EAIA:

- Identified any significant environmental impacts that can be anticipated for this phase;
- Assessed the risks from these impacts;
- Identified control measures to mitigate the risk; and
- Reported any unacceptable residual risk such that changes can be implemented to reduce the risk to an acceptable level.

2.3.3 The findings of the EAIA, and in particular the necessary controls to reduce risk, have been incorporated into the scheme Risk Assessment and Method Statements (RAMS) produced for Phase 3 (see **Table 2-2**) and daily Keep Safe and Well (K-SAW) forms as required. These documents will be briefed to all site operatives involved in the Works prior to the commencement of activities on site.

### Environmental Management Plan

2.3.4 AMC UK has also prepared an Environmental Management Plan (EMP) that documents how it will comply with its environmental obligations during the Phase 3 works (Appendix 1a). This document is referred to within this CEMP where relevant.

### 2.4 Objectives and Targets

2.4.1 A number of QHSE objectives have been identified within the AMC UK and NMC Ltd PMP and are similar for both contractors. In addition environmental targets and objectives are also contained within AMC UK's EMP (**Appendix 1a**). Further links to these objectives can be found in **Table 2-2**. Both contractors have the same targets which include:

- Zero environmental incidents;
- Zero accidents; and
- My Brother's Keeper Reporting.

### 2.5 Training, Awareness and Competence

2.5.1 In order to ensure that all staff on site are competent to undertake any works in accordance with health, safety and environmental legislation, requirements within the PMP, RAMS and other relevant guidance, and good practice, staff will have appropriate education, training and awareness.

2.5.2 The need for, and details of, site and project specific training and environmental awareness training is set out in the PMPs (see **Table 2-2**). Training will be provided and will include: site induction, with a focus on site specific environmental issues; tool box talks on specific RAMS, construction method statements, and specific environmental issues; and training on incident response procedures. Tool box talks will be used to target environmental issues of particular significance at relevant times throughout Phase 3.

### 2.6 Internal Communication

2.6.1 Communications within the site team is discussed in the PMPs and in the EMP (see **Table 2-2**). This includes information about communication within the Contractors' Environment Teams on site, communication between the Environment Teams and the Construction Teams, and communication between the Construction Teams and Sirius Minerals.

2.6.2 During all site inspections to assess environmental compliance, the Environment Teams will liaise with the Construction Teams to provide feedback on the inspections, identify areas of good practice and areas for improvement. Site inspection requirements are discussed in more detail in **Section 2.8.2** below.

2.6.3 Monthly progress meetings will be used to disseminate the results of monitoring and audit reports. At these meetings, a review of the environmental performance throughout the site to date will be undertaken and any improvements required during the construction phase will be identified. Details of where sustainable approaches to construction have been implemented or developed as the work proceeds will also be discussed and recorded. Their suitability for implementation at other areas of the site will be considered and applied where appropriate. Decisions about amendments required to the processes and procedures will also be agreed.

## 2.7 External Communication

2.7.1 Keeping neighbours, stakeholders and the wider community informed of the works is paramount to managing any complaints and maintaining a good working relationship. As such, a 'Community and Stakeholder Engagement Framework' has been prepared (**Appendix 4**). A *Highway Communication Plan* has also been prepared, as discussed further in **Section 4.2** below.

### Site Notice Boards

2.7.2 A display board (i.e. a site information board) will be erected at the entrance to the Woodsmith Mine site, to keep local residents and stakeholders informed of the works and their schedule. The site information board will identify key personnel, contact addresses, and telephone numbers, as well as showing visually the progress of works. The board will also detail the complaint procedures as set out in the PMP and the EMP (if appropriate) (see **Table 2-2**). These signs will be erected two weeks before the Works commence and will remain in situ until the Phase 3 works are complete.

### Traffic Management Liaison Group

2.7.3 A Traffic Management Liaison Group (TMLG) has been convened to oversee the implementation of the Construction Traffic Management Plan (CTMP), monitoring and enforcement of construction traffic movements. The TMLG will facilitate liaison between Sirius Minerals, planning authorities, highways authorities, and other key stakeholders in relation to the transportation aspects of the construction and operation of the project. Full details of the remit of the TMLG, its membership and its operation can be found in Section 6 of the CTMP.

## 2.8 Monitoring of Compliance

2.8.1 All construction and installation activities, including those carried out by sub-contractors, will be supervised by the Contractors' Project Managers with the support of members of their teams on a daily basis. The Contractors' Project Managers and teams will receive a briefing from the Contractors' Environmental Managers to ensure that they are aware of the environmental requirements identified in the PMP, the EAIA, the EMP and all other relevant documentation. The briefing will also ensure that they are able to assess whether the environmental requirements are being implemented properly.

2.8.2 Procedures relating to environmental management and monitoring of environmental performance identified within the CEMP, the PMP and the EMP (see **Table 2-10**) and other related documents, will be subject to inspections by the Contractors' Site Environmental Team at least once every five working days. Monitoring environmental performance on site by the Contractors' Environment Managers' and inspections by the Contractors' Site Environment Teams are key to ensuring that the requirements of this CEMP and the PMP are fully implemented on site.



- 2.8.3 As set out in the PMP and the EMP (see **Table 2-2**), reports of all environmental audits, as well as monthly progress reports on inspections undertaken, construction activities, environmental performance and minutes from the fortnightly Contractors' Environmental Team meetings will be forwarded by the Contractors' Project Managers to the Employer's Project Manager and the Employer's Environment Manager. Copies of these documents, as well as an updated register of incidents and actions taken, will be held on site and will be available for inspection by the statutory bodies, as required. An example Environmental Inspection Record Form is provided in **Appendix 5**.
- 2.8.4 On completion of Phase 3, a report detailing how the Contractor has complied with all elements of the CEMP, the PMP and supporting documentation relating to other environmental and approvals requirements will be issued to Sirius Minerals.

## 2.9 Complaints Procedure

- 2.9.1 The implementation of the systems and procedures to protect the environment will, if implemented, fully prevent environmental breaches. However complaints may still be received, and in this event the Complaints Procedure (**Appendix 6**), which is managed by Sirius Minerals' External Affairs Team, will be implemented. When a complaint is received, it will be immediately logged and all relevant details obtained. The complaint will be investigated by the relevant Contractor and the complainant contacted within five working days to be advised of the findings of the investigation and any mitigation required. All complaints will be acknowledged within 24 hours, and where possible will be closed out within five working days in order to satisfy the complainant.

## 2.10 Information in the PMPs, EMP and RAMS

- 2.10.1 More detailed information about the issues addressed in **Section 2** can be found in the PMPs produced by AMC UK and NMC Ltd (which as stated previously will be fully implemented by W J Groundwater as their subcontractor); the RAMS produced by all three Contractors; and the EMP produced by AMC UK. **Table 2-2** below identifies where within each document this additional information can be found.

Table 2-2 Location of Environmental Management Framework Information

Section of CEMP	Topic	AMC UK Documents	NMC Ltd Documents	W J Groundwater Documents
Section 2.1	Staff Roles and Responsibilities	Appendix 1a: Sections 2.1.2; 2.1.3 and 3.4.2 Appendix 1a Section 4; Appendix 2a: MS2	Appendix 1b: Sections 2a(i); 2a(ii); and 3c(xxxii) Appendix 2b:MS2	Appendix 2c: Section 4
Section 2.2	ISO14001 Certification	N/A	Appendix 3a	N/A
Section 2.2	Environmental Policy	Appendix 1a: Section 2	Appendix 3b	N/A
Section 2.3	Health and Safety	Appendix 1a: Sections 3.2 and 3.3 Appendix 2a: RA1 and MS2	Appendix 1b: Sections 3a and 3c Appendix 2b: RA1	Appendix 2c: Section 8

Section of CEMP	Topic	AMC UK Documents	NMC Ltd Documents	W J Groundwater Documents
Section 2.3	Environmental Aspects and Impacts	Appendix 1a: Section 3.3.20 Appendix 1a: Section 2.3	Appendix 1b, Section 3c(xix)	N/A
Section 2.4	Objectives and Targets	Appendix 1a: Section 2.2 Appendix 1a: Sections 2.4 and 2.5	Appendix 1b: Section 2(b)	N/A
Section 2.5	Training Awareness and Competence	Appendix 1a: Sections 2.3.13, 2.3.14 and 3.4.3 Appendix 2a: RA1 and MS2 Appendix 1a: Section 6	Appendix 1b: Section 2c(ix), 2c(x) and 3c(xxiv) Appendix 2b: RA1 and MS2	Appendix 2c: Section 4.3
Section 2.6	Internal Communication	Appendix 1a: Section 2.3 and 3.4.3 Appendix 1a: Sections 5.1, 5.2 and 5.3 Appendix 2a: MS2	Appendix 1b: Sections 2c and 3c(xxiv) Appendix 2b: MS2	N/A
Section 2.6	Inspections on site	Appendix 1a: Section 3.4.3 Appendix 1a: Sections 7.1 and 7.2	Appendix 1b: Section 3c(xxv)	N/A
Section 2.6	Monthly Progress Meetings	Appendix 1a: Section 3.4.5	Appendix 1b: Section 3c(xxv)	N/A
Section 2.7	External Communication	Appendix 1a: Section 2.3 Appendix 1a Sections 5.4, 5.5 and 5.6	Appendix 1b: Section 2c	N/A
Section 2.7	Site Notice Boards	Appendix 1a: Section 3.2.16.4	Appendix 1b: Section 3b(xx)	N/A
Section 2.8	Monitoring Compliance	Appendix 1a: Sections 3.3.6 and 3.4.4 Appendix 1a: Section 7	Appendix 1b: Sections 3c(v) and 3c(xxv)	N/A
Section 2.8	Inspections on site	Appendix 1a: Section 3.4.3 Appendix 1a: Section 7.1	Appendix 1b: Section 3c(xxv)	N/A
Section 2.8	Environmental Audits	Appendix 1a: Section 3.4.4.3 Appendix 1a: Section 7.1	Appendix 1b: Section 3c(xx)	N/A
Section 2.9	Complaints Procedure	Appendix 1a: Section 2.3.2 Appendix 1a: Section 4.5	Appendix 1b: Section 2c(i)	N/A

### 3 Description of Site

#### 3.1 Fencing and Security of the Site

- 3.1.1 A fencing strategy, including security and maintenance has been prepared in order to partially discharge conditions NYMNPA-64 and NYMNPA-66. Anti-climb fencing (2m in height) will be installed round the perimeter of the site and will be checked regularly for breaches and / or damage and action to repair any damage will be taken undertaken promptly. Temporary Heras fencing will be installed around both site compounds at Woodsmith Mine and all working areas to ensure these are secured from unauthorised access. The extent of all fencing is shown on Drawing 40-ARI-WS-71-CI-DR-1056.
- 3.1.2 An access gate will be installed within the perimeter fencing at the south of the site from the B1416 to allow authorised access to the site. The site will be manned on a 24 hour basis with a security cabin erected adjacent to the gate.
- 3.1.3 Details of the fencing, site access and site security for the site during Phase 3 are included in the PMP and the relevant sections of these documents are detailed in **Table 3-1**.

#### 3.2 Site Compounds

- 3.2.1 The details of the site compounds at Woodsmith Mine and their layouts are set out in the PMPs and details are also included in the RAMS (see **Table 3-1**). Each location will provide welfare facilities as well as an area for materials storage and car parking at two of the three sites. The details of these compound layouts are shown on drawing 40-ARI-WS-71-CI-DR-1050 (**Appendix 1a**) which details the layout of the AMC UK site compounds associated with the concrete batching plant and drawing 40-NMC-WS-70-FC-DR-0002 (**Appendix 1b**), which details the NMC Ltd site compound layout.

#### 3.3 Welfare facilities

- 3.3.1 Three separate sets of welfare facilities will be set up on site for Phase 3: welfare facilities for the concrete batch plant (AMC UK); welfare facilities next to the working platform; and welfare facilities for NMC Ltd. All sets of welfare facilities will include office accommodation; canteen facilities with a kitchenette; male and female toilets; washing facilities; and a drying room. Details of each of the welfare facilities can be found in each of the Contractor's PMPs (see **Table 3-1**).
- 3.3.2 The welfare facilities are portakabins and will be painted in RAL 6008 – Brown Green. More detailed information about the temporary structures being constructed by NMC Ltd is included in **Appendix 7** and in Section 2c(xi) of the PMP (**Appendix 1b**). Information about the temporary structures being constructed by AMC UK can be found in Part 9 of the Concrete Batch Plant RAMS (**Appendix 2b**). This information has been prepared and provided in order to partially discharge planning condition NYMNPA-68. In addition, further details of the temporary structures and their layout can be found in the Construction Method Statement produced to partially discharge condition NYMNPA-94.

### 3.4 Lighting

- 3.4.1 Measures and controls to reduce light pollution are provided in the PMPs (see **Table 3.1** below). The bulk of Phase 3 is restricted to daytime working, apart from the 24 hours a day working within the dewatering area only. All lighting will adhere to all relevant British standards and will be directed away from roads and properties. In addition, guidance such as that produced by the Bat Conservation Trust will be followed, to ensure that the bats roosting at Woodsmith Mine and other species in the area are not adversely affected by the temporary task lighting.

### 3.5 Materials Storage

- 3.5.1 Details of the locations for storage of plant and materials, and the measures to prevent pollution, contamination or nuisance, is provided in the PMPs and the RAMS (see **Table 3-1**) and also discussed in **Section 11**. The locations for the proposed storage areas are shown on drawing 40-ARI-WS-71-CI-DR-1050 (**Appendix 1a**) and drawing 40-NMC-WS-70-FC-DR-0002 (**Appendix 1b**). All storage areas will be clearly marked on site and location details will be provided to all delivery drivers before they arrive on site.

### 3.6 Wheel Washing Facilities

- 3.6.1 Wheel wash facilities will be provided on the access road between the site and the welfare access. Further information about this facility can be found in the PMPs (see **Table 3-1**). The wheel wash will be a 'self-contained' system, allowing for enclosed settlement of sediment and re-use of water in the wheel washing system. Disposal of spent water would be as per manufacturer's guidance. It is unlikely that the wheel wash water would be contaminated with anything other than suspended sediment. Once settled, it could feasibly be used for dust suppression, subject to acceptability testing. In addition, the relevant Contractor will monitor the cleanliness of the road daily to ensure that it is free of debris. Road sweepers will be deployed to clean the roads as necessary and as instructed by the relevant Contractor.

### 3.7 Site housekeeping

- 3.7.1 The implementation of a good site housekeeping policy is key to reducing the likelihood of accidents and environmental pollution incidents. Good housekeeping measures that will be implemented on site include:
- Keeping the site tidy;
  - Segregating waste and removing it from site regularly;
  - Maintaining all site facilities, including welfare facilities;
  - Maintaining site roads, ensuring internal roads and those surrounding the site are kept clean;
  - Ensuring plant and vehicles on site are well maintained;
  - Ensuring all materials are stored appropriately;
  - Undertaking regular inspections of all areas of the site to ensure housekeeping requirements are being fully implemented; and
  - Ensuring that detailed records of these inspections, their findings and any mitigation required are kept.

### 3.8 Information in the PMPs, EMP and RAMs

3.8.1 More detailed information about the issues addressed in **Section 3** can be found in the PMPs produced by AMC UK and NMC Ltd the RAMS produced by all three Contractors, and in the EMP produced by AMC UK. **Table 3-1** below identifies where within each document this additional information can be found.

Table 3-1 Location of Information within the Project Management Plans

Section of CEMP	Topic	AMC UK Documents	NMC Ltd Documents	W J Groundwater Documents
Section 3.1	Fencing and Security of the Site	Appendix 1a: Section 2.3.10 Appendix 2a: MS3	Appendix 1b: Sections 2c(viii) Appendix 2b: MS3	N/A
Section 3.2	Site Compounds	Appendix 1a: Section 2.3.10	Appendix 1b: Section 2c (viii)	N/A
Section 3.3	Welfare Facilities	Appendix 1a, Section 2.5.1 Appendix 2a: MS2	Appendix 1b: Section 2c(xi) Appendix 2b: MS2	Appendix 2c: Section 7
Section 3.4	Lighting	Appendix 1a, Section 3.3.17	Appendix 1b: Section 3c(xvi)	N/A
Section 3.5	Materials Storage	Appendix 1a: Section 3.2.16.1 Appendix 1a: Section 8.1.2 Appendix 2a: Part MS3	Appendix 1b: Sections 2c(xx) Appendix 2b: MS3	Appendix 2c: Section 7
Section 3.6	Wheel Washing Facilities	Appendix 1a: Section 3.3.15 Appendix 2a: MS3	Appendix 1b: Section 3c(xv) Appendix 2b: MS3	N/A
Section 3.7	Site Housekeeping	Appendix 2a: Part MS3	Appendix 2b: MS3	Appendix 2c: Section 8

## 4 Traffic

### 4.1 Introduction

4.1.1 A wide range of measures to manage the impacts of construction traffic have been put in place. Some of these measures have been incorporated into the design of the consented scheme such as a number of highway improvement works including:

- A right turn lane from the A171 to B1416;
- Upgrading of existing crossing near Helredale Road Whitby; and
- Works to upgrade the existing traffic signals at the A171/A170 Mayfield Road junction to improve capacity, and to include pedestrian crossing facilities.

4.1.2 Other mitigation measures to be implemented during construction are discussed in the sections below.

#### 4.2 Construction Traffic Management Plan (CTMP)

4.2.1 A CTMP for Phase 3 at Woodsmith Mine has been prepared and submitted to partially discharge condition NYMNP-34. The CTMP contains a range of general measures for the management of transport during Phase 3 including:

- High occupancy travel for employees, including car-sharing and minibus pick up; and
- All vehicles travelling to site using the designated routes only.

4.2.2 The CTMP also contains a *Highway Communication Plan*, covering all Phase 3 Works. This plan outlines how communication with the public, the planning and local authorities, and any other stakeholders will be undertaken. The Plan has been subject to North Yorkshire County Council (NYCC) consultation and a copy is provided in Appendix D of the CTMP.

4.2.3 The CTMP also specifies prohibited routes for construction vehicles. To support this, Prohibitive and Directional Signage will be shared with all delivery drivers. This signage was installed prior to the commencement of Phase 2 of the project and will be maintained throughout the construction period for Phase 3.

#### 4.3 Parking and Deliveries to Site

4.3.1 Details of parking, deliveries and unloading at Woodsmith Mine are provided in a number of the sections of the PMP (see **Table 4-1**). In addition, information about parking, heavy goods vehicles (HGV) movements, and deliveries to the site is shown in **Table 4-1**. Section 4 of the CTMP also provides this information.

##### Parking on site

4.3.2 Parking will only be permitted within designated car parking areas and drivers will be required to display permits while parking on site. No access to the site by foot is permitted unless otherwise agreed with site management.

##### HGV Deliveries

4.3.3 Procedures relating to the management of HGV deliveries to site, and the management of the removal of all materials from Woodsmith Mine are set out in the PMPs and in the RAMS (see **Table 4-1**). Further information can also be found in Section 4 of the CTMP. The CTMP allows a maximum of 63 deliveries to site a day and a booking system will be implemented to ensure that deliveries are managed to ensure this maximum is not breached. Records of all deliveries, including numbers of vehicles and times of arrival will be held on site. All HGV drivers will receive specific training relating to safe driving with a focus on local hazards, and records of this training will be held.

### Fuel Deliveries

4.3.4 The procedures that will be implemented with respect to fuel deliveries, including measures to ensure that fuel supplies are not depleted during inclement weather, when it may not be safe to make such deliveries, are set out in the PMPs and in the RAMS (see **Table 4-1**). Fuel will be delivered to the compound at Woodsmith Mine and stored in tanks with appropriate storage facilities as detailed in **Section 11.2**. In the event of a fuel spillage, the fuel will be cleared up using an oil spill kit, which will be available at all areas of activity. Where a spill occurs outside of a bunded area, the pollution incident procedure, as outlined in **Section 12**, will be implemented.

### Pedestrians and cyclists

4.3.5 Pedestrians and cyclists will be kept separate from the construction related traffic at all times to avoid accidents. In addition all plant will be fitted with white noise alarms to warn pedestrians of their presence.

## 4.4 Enforcement System for Breaches of Traffic Management Requirements

4.4.1 To ensure that measures in the CTMP are delivered and targets are quantifiable, the PMPs provide a summary of the mechanisms to ensure that the CTMP is effectively enforced (**Table 4-2**). These procedures are fully detailed in Sections 7 and 11 of the CTMP. Offenders who breach the requirements will receive a warning and may ultimately be removed from site. This information will be relayed to all suppliers and each driver, prior to their first visit to site, as part of the tool box talk. Where a breach of the traffic management requirements is reported or identified, the mechanisms within the CTMP will be implemented.

## 4.5 Information in the PMPs and RAMS

4.5.1 More detailed information about the issues addressed in Section 4 can be found in the PMPs produced by AMC UK and NMC Ltd, and the RAMS produced by all three Contractors. **Table 4-1** below identifies where within each document this additional information can be found.

Table 4-1 Location of Information relating to Traffic

Section of CEMP	Topic	AMC UK Documents	NMC Ltd Documents	W J Groundwater Documents
Section 4.3	Parking on site	Appendix 2a: RA1	Appendix 1b: Section 3b(viii) Appendix 2b: RA1	Appendix 2c: Section 7
Section 4.3	Deliveries to site	Appendix 1a: Sections 3.1.4, 3.2.6 and 3.2.7, and 3.3.14 Appendix 2a: RA1, MS2 and MS3	Appendix 1b: Sections 3a(iv), 3b(vi) and 3c(xv) Appendix 2b: RA1, MS2 and MS3	Appendix 2c: Section 7
Section 4.3	Fuel deliveries	Appendix 1a: Section 3.3.22 Appendix 2a: MS2 and MS3	Appendix 1b: Section 3c(xxi) Appendix 2b: MS2	N/A

## 5 Noise and Vibration

### 5.1 Introduction

5.1.1 A wide range of measures have been developed to reduce the impacts of noise and vibration from construction. Some of these measures have been incorporated into the design of the development, such as the construction of noise bunds and an acoustic fence, while others involve mitigation to be incorporated on site during construction. These are detailed in the Noise and Vibration Management Plan for Phase 3 (**Section 5.2** below), and summarised in the PMPs (see **Table 5-1**).

### 5.2 Noise and Vibration Management Plan

5.2.1 A Noise and Vibration Management Plan (NVMP) for Phase 3 has been prepared and submitted to the NYMNPA to partially discharge condition NYMNPA-18. It includes details of the noise sensitive receptors, agreed noise limits, monitoring to be undertaken and the mitigation measures to be implemented.

5.2.2 Some of the key mitigation measures included within the NVMP include:

- Maintaining plant and equipment in good working order;
- Fitting plant and equipment with silencers and acoustic panels where appropriate;
- Shutting down or throttling back plant when not in use; and
- Using white noise reversing systems on plant instead of reversing beepers as far as is safe and practicable.

### 5.3 Information in the PMPs and EMP

5.3.1 More detailed information about the issues addressed in Section 5 can be found in the PMPs produced by AMC UK and NMC Ltd and the EMP produced by AMC UK. **Table 5-1** below identifies where within each document this additional information can be found.

Table 5-1 Location of Information relating to Noise and Vibration

Section of CEMP	Section	AMC UK Documents	NMC Ltd Documents
Section 5.2	Noise and Vibration (Environment)	Appendix 1a: Sections 3.3.6 and 3.3.12 Appendix 1a: Section 8.1.3 Appendix 2a: RA1	Appendix 1b: section 3c(xii) Appendix 2b: RA1

## 6 Air Quality and Dust Management

### 6.1 Introduction

6.1.1 A wide range of measures have been developed to reduce the impact of construction on air quality and, as part of this, to manage dust. Improvements to the signals at the A171 Mayfield Junction will be undertaken. This improvement will have benefits for air quality by reducing waiting times at the Mayfield Junction, and encouraging the flow of traffic on this road section.



6.1.2 Mitigation specific to Phase 3 has been identified and is detailed in the Construction Vehicle and Plant Management Plan (CVPMP) (**Section 6.2**), and the Dust Management Plan (DMP) (**Section 6.3**). Information is also summarised in the PMPs (see **Table 6-2**).

6.1.3 The potential for impacts on nearby designated ecological sites as a result of emissions from power generation plant was considered in the documentation prepared to partially discharge condition NYMNP-91. This document concludes that these sites will not be adversely affected by Phase 3.

## 6.2 Construction Vehicle and Plant Management Plan

6.2.1 A CVPMP has been prepared for Phase 3 to enable the partial discharge of planning condition NYMNP-92. The CVPMP details the results of baseline dust deposition monitoring, which was undertaken in 2014 at eight locations around the boundary of the site. The recorded levels were well within the accepted levels.

6.2.2 The main sources of particulate matter release during Phase 3 are from the combustion of fuel associated with the operation of on-site plant (referred to as non-road mobile machinery (NRMM)) and generators; and from brake and tyre wear arising from the transportation of staff to site, and HGV deliveries and movements.

6.2.3 Emissions of particulate matter from transport for Phase 3 were calculated in accordance with relevant guidance and are presented in the CVPMP. The total particulate matter generated from construction-phase traffic, NRMM and generators was predicted to be a small percentage of the total PM<sub>10</sub> emission across the Scarborough Borough Council (SBC) area.

6.2.4 Despite the low levels of particulate emissions during Phase 3, a number of mitigation measures have been identified to minimise these emissions (Section 5 of the CVPMP). These have been incorporated into the PMPs and EMP (**Table 6-2** below refers). These measures include:

- All NRMM should use fuel equivalent to ultralow sulphur diesel (fuel meeting the specification within EN590:2004);
- As of 1st January 2017, all NRMM will comply with regulation (EU) 2016/16289 of the European Parliament and of the European Council; All NRMM will be fitted with Diesel Particulate Filters (DPF) conforming to defined and demonstrated filtration efficiency (load/duty cycle permitting);
- The ongoing conformity of plant retrofitted with DPF, to a defined performance standard, will be ensured through a programme of onsite checks; and
- Fuel conservation measures will be implemented, including instructions to (i) throttle down or switch off idle construction equipment; (ii) switch off the engines of trucks while they are waiting to access the site and while they are being loaded or unloaded and (iii) ensure equipment is properly maintained to ensure efficient fuel consumption.

## 6.3 Dust Management Plan

6.3.1 Dust emissions can arise from the majority of the construction activities being undertaken in site as part of Phase 3. Measures and controls to minimise dust emissions from Phase 3 are provided in the PMPs and the EMP (see **Table 6-2**). A Dust Management Plan, specifically for Phase 3, is provided in **Appendix 8** of this CEMP. Daily inspections and monitoring will be undertaken by the Contractors, in accordance with this procedure. Some of the dust management mitigation identified in the DMP is shown in **Table 6-1** below.

Table 6-1 Example Dust Management Mitigation

Source / Activity	Mitigation Measures
Construction traffic	<ul style="list-style-type: none"> <li>Implementing speed limits on internal roads</li> <li>Spraying down internal roads when dust emissions are noted</li> <li>Providing wheel washes to reduce dust on public highways</li> <li>Sheeting of vehicles carrying dust generating materials</li> <li>Regular maintenance of vehicles</li> </ul>
Compound areas	<ul style="list-style-type: none"> <li>Ensuring that areas round the welfare facilities and vehicle management areas constructed of hardstanding</li> <li>Sweeping / dampening down these areas of hard standing as required</li> </ul>
Storage areas	<ul style="list-style-type: none"> <li>Grass seeding temporary earth bunds until reuse</li> <li>Profiling stock piles of dust generating materials;</li> <li>Covering dust generating stockpiles</li> <li>Dampening down facilities for stockpiles</li> </ul>
Demolition works	<ul style="list-style-type: none"> <li>Dampening down areas where demolition is being undertaken as required</li> </ul>
Construction works	<ul style="list-style-type: none"> <li>Ensuring that dust collection facilities are available when cutting and/or grinding activities are being undertaken.</li> <li>Monitoring earth moving works, especially in dry and windy conditions.</li> </ul>

## 6.4 Information in the PMPs and EMP

6.4.1 More detailed information about the issues addressed in Section 6 can be found in the PMPs produced by AMC UK and NMC Ltd and the EMP produced by AMC UK. **Table 6-2** below identifies where within each document this additional information can be found.

Table 6-2 Location of Information relating to Air Quality and Dust

Section of CEMP	Topic	AMC UK Documents	NMC Ltd Documents
Section 6.2	Vehicle and Plant Emissions	Appendix 1a: Sections 3.2.11, 3.3.1, 3.3.10 and 3.3.21	Appendix 1b: Sections 3b(iv), 3b(xiv), 3c(x) and 3c(xx)
Section 6.3	Dust Management	Appendix 1a: Sections 3.3.10.1 and 3.3.21 Appendix 1a: Section 8.1.1	Appendix 1b: sections 3c(x) and 3c(xx)

## 7 Nature Conservation

### 7.1 Introduction

7.1.1 A number of ecological surveys have been undertaken on the Woodsmith Mine site. These surveys resulted in a number of planning conditions to be discharged and documentation provided to discharge these conditions is described in **Sections 7.2 – 7.5** below.

## 7.2 Protected Species and Precautionary Method of Working for Site Clearance

7.2.1 The ES that supported the original planning application concluded that any impacts on legally protected species would not be significant. Phase 3 Protected Species Management Plans (PSMP) have been produced for bats, reptiles, badgers and birds to partially discharge planning condition NYMNPA-52. These documents outline the measures to be taken during Phase 3 Works to ensure such species are protected.

7.2.2 In addition to the PSMPs, Precautionary Methods of Working (PMoW) for site clearance will be undertaken to protect protected species which may be encountered during Phase 3. These are set out in **Appendix 9** and will cover all stages of the development.

## 7.3 Tree Protection Areas

7.3.1 An Arboricultural Method Statement (AMS), with an accompanying Tree Protection Plan (TPP) has been prepared to partially discharge NYMNPA-70 (**Appendix 10**). These documents identify which trees have to be removed as part of Phase 3 and those that will be retained as well as identifying any trees which may require protection during construction to avoid damage to the trees and root systems. All activities will be undertaken in accordance with BS5837:2012. Protection takes the form of protective mesh barriers or simple roping of areas of trees and the tree that require protection, and the type of protection works to be implemented can be found in Appendix A (the Tree Protection Plan) and Appendix B of the Arboricultural Method Statement respectively.

7.3.2 The Arboricultural Method Statement also identifies a number of mitigation measures to be implemented during Phase 3. These include:

- All fencing and barriers should be inspected on a regular basis and repairs carried out as soon as practicable;
- No fires to be lit on site where flames can reach within 5 metres of a tree's crown, taking the size of the fire, wind speed and direction into account;
- No storage or discharge of materials within 5 metres of a tree bole;
- No mixing of cement or dispensing of fuel or chemicals within 5 metres of a tree bole;
- No stripping of topsoil, excavation or changing of levels to occur within the Root Protection Area (RPA);
- Any damage that occurs to the trees during construction must be rectified to the British Standard BS3998: 2010 (Tree Work – Recommendations); and
- Trees must not be used as anchor points for winching or for supporting wires/cables.

## 7.4 Protected Habitats within the North York Moors Natura 2000 Site

7.4.1 Woodsmith Mine is located adjacent to the North York Moors Special Area of Conservation (SAC) and Special Protection Area (SPA), which includes Sneaton Low Moor and Ugglebarnby Moor. It was anticipated that this area comprised a number of groundwater dependant terrestrial ecosystems and a number of surveys have been undertaken to assess the extent of these habitats. It has been concluded that the species recorded in the SAC / SPA do not make up groundwater dependent moor plant communities with the exception of one localised area.

7.4.2 The “Ugglebarnby Moor southern Spring Flush” area adjacent to Lousy Hill Lane, contains flora that is dependent on soil moisture conditions sustained by the spring flows and, as such, is sensitive to hydrogeological variations within the shallow rock aquifer. An assessment of the impacts of Phase 3 indicated that there would be a negligible physical impact on the Spring and as a result, no adverse effects on the flora present. This is discussed in more detail in the report, *Hydrogeological Risk Assessment for Phase 3 Works at Woodsmith Mine (FWS, March 2017)* which was prepared to allow the partial discharge of condition NYMNPA-46.

## 7.5 Environmental Enhancement

7.5.1 During construction, areas of vegetation will be lost, some temporarily and some permanently. A Phase 3 Landscape and Ecological Management Plan (LEMP) has been prepared to partially discharge condition NYMNPA-57. This LEMP identifies objectives for the Phase 3 Works and details the mitigation that will be required to meet these objectives.

7.5.2 The Phase 3 LEMP follows the design principles set out in the ES and Supplementary Environmental Information which accompanied the planning application. During Phase 3, landscape works will be undertaken as part of the environmental mitigation for the project. This includes:

- seeding of the soil storage mounds to protect the soil resource and to help visually mitigate the construction works through rapid greening up of the storage mounds;
- maintenance of grass cover over parts of the site where soils are yet to be stripped;
- seeding of surface water swales and the banks of the temporary settling ponds to help reduce soil erosion and subsequent impact on water quality; and
- planting of wildlife and SuDS polishing ponds with native plant species of local provenance and encouragement of natural colonisation.

7.5.3 The Phase 3 LEMP outlines the management prescriptions that will be implemented during Phase 3, including a review schedule for the annual site management inspections. A report will be issued to NYMNPA following each inspection, setting out issues or changes that have occurred in the preceding year and actions that will be undertaken in the following year.

## 8 Archaeology

### 8.1 Introduction

8.1.1 An assessment of the sites of archaeological interest within the footprint of Woodsmith Mine was undertaken during the development of the project and an archaeological desk based assessment was undertaken. This assessment outlined that there were no sites within the area of Phase 3 that required detailed archaeological investigations. However, a number of sites which may require some further consideration were identified and this report recommended that a Written Scheme of Investigation (WSI) be prepared before construction works commenced.

### 8.2 Written Scheme of Investigation

8.2.1 A WSI has been prepared outlining the works to be undertaken to investigate these sites and allows the partial discharge of condition NYMNPA-95. The WSI details the need for a watching brief to be implemented during specific stages of Phase 3. This Phase 3 WSI is a continuation of the approach approved for Phase 2, updated to reflect the scope of the Phase 3 Works. This has been incorporated into the PMPs (see **Table 8-1**).

### 8.3 Information in the PMPs

8.3.1 More detailed information about the issues addressed in **Section 8** can be found in the PMPs and RAMS produced by AMC UK and NMC Ltd. **Table 8-1** below identifies where within each document this additional information can be found.

Table 8-1 Location of Information relating to Archaeology

Section of CEMP	Topic	AMC UK Documents	NMC Ltd Documents
Section 8.2	Archaeology	Appendix 1a: Section 3.3.13 Appendix 2a: MS3	Appendix 1b: Section 3c(xiv) Appendix 2b: MS3

## 9 Hydrogeology, Water Quality and Drainage

### 9.1 Introduction and Generic Water Protection Issues

9.1.1 A range of watercourses run through the site. In addition there are three different groundwater tables and a small area of habitat that is dependent on groundwater below the site (see **Section 4.7**). In order to prevent pollution of the water environment the construction works will be undertaken in accordance with best practice which is laid out in the withdrawn Pollution Prevention Guidance which was produced by the Environment Agency.

9.1.2 In addition, specific mitigation to protect surface water and ground water was developed and this is discussed in **Sections 9.2 – 9.4** inclusive below.

9.1.3 Further information on the in the surface water drainage schemes and the associated silt and pollution management can be found in the Surface Water Drainage Scheme Report produced to permit the partial discharge of conditions NYMNP-60 and NMYNPA-79. Appendix 3 of the report contains the Surface Water Management Plan for the works. Information about this system can also be found in the PMPs (see **Table 9-1**).

### 9.2 Groundwater Water Management

9.2.1 Dewatering will be undertaken during Phase 3 Works to prevent groundwater ingress into the construction areas during future preparation for shaft sinking. A series of approximately 35 dewatering wells will be constructed as part of the dewatering works and these will discharge, via an existing outfall serving the temporary dewatering system on site, to a tributary of the Sneaton Thorpe Beck. The construction of diaphragm walls will prevent groundwater ingress into the shaft and head from structures for the Production, Service and Materials transport systems.

9.2.2 A concrete impregnated geosynthetic liner will be laid in the drainage ditches around the Shaft Platform and Southern Working Platform. Where there is insufficient material to form a natural geological barrier underneath the platforms, a geomembrane will be used to create an impermeable area. As well as controlling groundwater movement, this will prevent pollution of groundwater in the event of a spillage.

9.2.3 Further information about methods for dealing with groundwater during Phase 3 can be found in the report *Hydrogeological Risk Assessment for Phase 3 Works at Woodsmith Mine / 1433DevOR175 / March 2017* which was prepared to allow the partial discharge of condition NYMNPA-46.

### 9.3 Surface Water Management

9.3.1 Surface water runoff from developed and disturbed areas will be directed to the surface water drainage system for the sites. These areas include hard standing areas; disturbed soils; granular access road and, due to the natural slope of the ground, some of the undisturbed vegetated permeable areas. Oil separators will be provided on all surface water drainage systems installed to collect and convey runoff from hard standing areas. As discussed in **Section 9.2** above the drains in the surface water drainage system will be lined to prevent groundwater ingress into the drainage system.

9.3.2 Surface water runoff from temporary spoil bunds will be controlled by the aid of swales.

### 9.4 Silt and Pollutant Management

9.4.1 The surface water drainage system referred to in **Paragraph 9.3.1** above provides a minimum of 3 stages of treatment to minimise the risk of sediments entering the tributaries of Sneaton Thorpe Beck. This system incorporates: swales and ditches with check dams; infiltration to ground; oil separators with silt traps where considered appropriate; a silt removal facility; and an attenuation pond. Calculations have been carried out to estimate the percentage removal of sediments in both the silt removal facility and the attenuation pond using the 1 in 20 year critical duration storm event.

9.4.2 The silt removal facility will incorporate a long flat treatment ditch designed to settle out fine sediments that get past the silt fences and check dams. The ditch will be lined with concrete canvas or similar to enable easier dredging operations and will have a control valve on the outlet, so that dredging can be undertaken without sediment-laden water escaping downstream to the attenuation pond.

9.4.3 The surface water drainage system referred to in **Paragraph 9.3.1** is fitted with check dams and silt fencing. There will be silt fences positioned in the fields downstream of these swales to intercept, slow and treat any water that seeps over the edge of the swales to mimic a 'natural' response and avoid surface water 'sheeting' off the slopes. This runoff would eventually find its way into existing perimeter ditches at the boundary of the site and then into the tributaries of Sneaton Thorpe Beck.

### 9.5 Retention and Improvement of Ephemeral Surface Water Channels

9.5.1 The ephemeral surface water channels referred to Condition NYMNPA-93 are restricted in location to within Woodsmith Mine. One of the straightened drainage channels within Haxby plantation will be crossed by one of the site roads as shown in drawing 40-ARI-WS-71-CI-DR-1070. This crossing involves culverting the channel and installing a pipe to maintain existing drainage pathways. No improvements to this or other channels are proposed during these Phase 3 Works. Further details of this can be found in the Surface Water Management Plan (SWMP) prepared to enable the partial discharge of conditions NYMNPA-60 and NYMNPA-79.

## 9.6 Information in the PMPs, RAMS and EMP

9.6.1 More detailed information about the issues addressed in **Section 9** can be found in the PMPs produced by AMC UK and NMC Ltd, the RAMS produced by all three Contractors, and the EMP produced by AMC UK. **Table 9-1** below identifies where within each document this additional information can be found.

Table 9-1 Location of Information relating to Hydrogeology, Water Quality & Drainage

Section of CEMP	Topic	AMC UK Documents	NMC Ltd Documents	W J Groundwater Documents
Section 9.2	Groundwater management	N/A	N/A	Appendix 2c: Sections 8; 9.7; 10.7; 11.5; and 12.7
Section 9.3	Surface water management	Appendix 1a: Section 3.3.11 Appendix 2a: RA1 and MS3	Appendix 1b: Section 3c(xi) Appendix 2b: MS3	Appendix 2c: Sections 8; 9.7; 10.7; 11.5; and 12.7
Section 9.4	Silt Management	Appendix 1a: Section 3.3.11 Appendix 1a: section 8.2 Appendix 2a: RA1 and MS3	Appendix 1b: Section 3c(xi) Appendix 2b: MS3	Appendix 2c: Sections 8; 9.7; 10.7; 11.5; and 12.7

## 10 Soils and Contaminated Land

### 10.1 Introduction

10.1.1 As part of Phase 3, areas of the Woodsmith Mine site will be stripped and temporary and permanent earth bunds created on site. To ensure that this work is done in accordance with legal requirements and good practice guidance, a Soil Management Plan (SMP), required to partially discharge condition NYMNPA-76, has been prepared. The following sections of this report outline the soil management strategy and the requirements of the SMP are incorporated into the PMPs (see **Table 10-1**).

### 10.2 Top Soil and Sub-Soil Management

10.2.1 The soil (top soils and subsoils) handling procedures outlined in the SMP, including stripping, storing and replacing soils, will comply with industry guidance. Soil will be moved only when it is in a dry and friable condition and shall not be moved between 1 October and 31 March, or after periods of heavy rain, unless soil analysis indicates that soil is sufficiently dry to move. Prior to soil stripping, characterisation testing will be carried out by the Environmental Engineer to determine the grading and textural classification in accordance with BS 3882:2015 and the plasticity range specific to the principal topsoil and subsoil materials present on site. In addition, the extent of bare soil left open will be minimised bare surfaces will be left rough to encourage infiltration and minimise surface runoff.

10.2.2 Three individual temporary topsoil and subsoil stockpiles are to be constructed in the southwestern area of the site to accommodate the soils generated from Phase 3 along with one permanent stockpile as shown in Drawing 40-ARI-WS-71-CI-DR-1053.

- 10.2.3 No differentiation will be applied to different topsoil or subsoil materials generated and, as such, all topsoil materials may be stockpiled together and all subsoil materials may also be stockpiled together. Temporary topsoil and subsoil stockpiles constructed as part of Phase 3 will remain in place throughout the mine construction phase, to be utilised within the final site restoration works. Topsoil stockpiles will not exceed 3m high and subsoil stockpiles will not exceed 7m high; side slopes will be no steeper than 1 in 2.
- 10.2.4 Once the stockpile has been completed, the area will be cordoned off with secure fencing to prevent disturbance or contamination by other construction activities. Temporary stockpiles that are to be in place for more than three months will be seeded with grass, to minimise soil erosion and to help reduce colonisation by nuisance weeds.

### 10.3 Contaminated land

- 10.3.1 No areas of potentially contaminated land have been identified within the footprint of Phase 3 at Woodsmith Mine. However, if potentially contaminated soils are identified, excavation in the area will cease and the areas will be fenced off and marked as potentially contaminated. Any material that has already been excavated from the area will be segregated and stored on an impermeable membrane and covered to prevent contaminated run-off, or will be stored in sealed containers. A comprehensive programme of materials testing will be undertaken to determine the nature, if any, of the contamination; remediation, if required, will be undertaken. Detailed records of the areas of contamination, the volumes excavated, the location and nature of storage and all materials testing undertaken, as well as the results of the testing, will be held on site for inspection. Further information about contaminated land and dealing with contaminated materials can be found in the PMPs (see **Table 10-1**).

### 10.4 Information in the PMPs, RAMS and EMP

- 10.4.1 More detailed information about the issues addressed in Section 10 can be found in the PMPs produced by AMC UK and NMC Ltd, the RAMS produced by NMC Ltd and W J Groundwater, and the EMP. **Table 10-1** below identifies where within each document this additional information can be found.

Table 10-1 Location of Information relating to Soils and Contaminated Land

Section of CEMP	Topic	AMC UK Documents	NMC Ltd Documents	W J Groundwater Documents
Section 10.2	Soil Management	Appendix 1a: Section 3.3.9.1	Appendix 1b: Section 3c(viii) Appendix 2b: MS3	Appendix 2c: Sections 8; 9.7; 10.7; 11.5; and 12.7
Section 10.3	Contaminated Land	Appendix 1a: Section 3.3.24.3	Appendix 1b: Section 3c(ix)	Appendix 2c: Sections 8; 9.7; 10.7; 11.5; and 12.7



## 11 Materials and Waste

### 11.1 Introduction

11.1.1 A wide range of materials and waste materials are to be stored on site and these will be stored in a number of locations as detailed in **Section 3.6** above, and in Drawings 40-ARI-WS-71-CI-DR-1050 and 40-NMC-WS-70-FC-DR-0002. The areas for storage have been planned to avoid excessive handling of material and to facilitate loading and unloading. Details of the measures that have been taken to ensure that no pollution results as a result of the storage of these materials on site are detailed in **Sections 11.2 – 11.5** inclusive below. This is detailed in the PMPs and RAMS (see **Table 11-2**).

### 11.2 Location and Nature of Storage Areas

11.2.1 The nature of the materials being held on site will dictate the storage methodology adopted. The chemical and fuel storage areas are located as far from all drains and watercourses on the site as possible, and at least 5m from these features. In addition, the storage areas on site are not within areas where excavations into the natural ground will be undertaken. This is set out in the PMP and the RAMS.

11.2.2 Storage areas within the compound are not being positively drained. All non-polluting materials will be stored as described in the PMP, with surface water draining to adjacent permeable areas such as gravel hard standing and grass. Runoff from areas of hard-standing and storage, away from the compound, is directed to surface water drainage systems as detailed in **Sections 9.3 and 9.4**. Penstocks will be fitted, which can be closed in the event of a spillage or detection of contaminants in the water.

### 11.3 Fuel Oil Storage and Refuelling on Site

11.3.1 Chemicals and fuel will be stored in sealed containers and on a suitably bunded, impervious hardstanding. Fuel will be stored within bunded, double skinned bowsters, with bunded capacity equal to 110% of the total capacity of all containers stored within the bunded area. Products that are subject to Control of Substances Hazardous to Health (COSHH) materials will be stored within a bunded COSHH store, with bunded capacity equal to 110% of the total capacity of all containers stored within the store. Bunds will be fitted with release valves, which will remain closed and locked at all times, other than for maintenance or draining of the bunded area in the event of a spillage.

11.3.2 Any mobile refuelling, onsite, will be undertaken a minimum of 5m from any open excavations, watercourses or drains and will be subject to the spill precaution measures presented in the PMP (see **Table 11-2**). Spill kits will be stored adjacent to the storage areas as well as at other key locations around the site (PMP (see **Table 11-2**). Personnel trained in the deployment of spill kits will be present on site at all times during the works.

## 11.4 General Management of Non-Extractive Waste

11.4.1 Methods for the management of Non-Extractive Waste are set out in the PMP (see **Table 11-2**). A Construction Site Waste Management Plan (CSWMP) has been prepared by AMC UK and can be found in the EMP (**Appendix 1a**). A further CSWMP, to cover those activities being undertaken by NMC Ltd and W J Groundwater prior to construction and will specify how all waste materials will be managed and stored on site. The CSWMP will also contain records of waste transfers, waste carriers, and waste management facilities. The Contractors will prepare and keep a copy of the CSWMP in the each of their site offices. They will ensure that this document is updated throughout construction and upon completion of Phase 3 (**Table 11-1**).

Table 11-1 Waste Streams and Management Strategies

Waste	Management Strategies
Vegetation	Vegetation removed as part of site clearance will be treated as waste, and methods for its disposal are outlined in the PMP (see <b>Table 11-2</b> ).
Storage and Disposal of General Office Waste	Procedures relating to general waste generated on site are provided in the PMP (see <b>Table 11-2</b> ).
Storage and Disposal of Sewerage Wastewater	<p>Sewerage waste water will be collected in cess pits and will be removed from site on a regular basis via tanker, and disposed of to a suitably permitted facility as specified in the PMP (see <b>Table 11-2</b>).</p> <p>The cess tank serving the NMC Ltd welfare facilities at Woodsmith Mine for Phase 3 Works (drawing (40-NMC-WS-70-FC-DR-0002) is the existing cess tank, associated with the Woodsmith Mine Farm house. As an extant feature, no installation details are available for the cess tanks.</p> <p>The cess tanks serving the welfare facilities for the cement batching plant are new plants and further details about these can be found in the PMP (see <b>Table 11-2</b>).</p>
Storage and Disposal of Hazardous Waste	Although it is not anticipated that any hazardous waste will be generated on site, procedures have been set out in the PMP (see <b>Table 11-2</b> ) should this occur.

## 11.5 Information in the PMPs, RAMs and EMP

11.5.1 More detailed information about the issues addressed in Section 11 can be found in the PMPs produced by AMC UK and NMC Ltd, the RAMs produced by NMC Ltd and W J Groundwater and the EMP produced by AMC UK. **Table 11-2** below identifies where within each document this additional information can be found.

Table 11-2 Location of Information relating to Materials and Waste

Section of CEMP	Topic	AMC UK Documents	NMC Ltd Document	W J Groundwater Documents
Section 11.2	Nature and Location of Storage Areas	Appendix 1a: Section 3.1.4, 3.1.7, 3.2.16 and 3.3.9 Appendix 1a: Section 8.1.2	Appendix 1b: Sections 3a(vii), 3b(xx), 3c(vii), and 3c(xi)	N/A
Section 11.3	Fuel Oil Storage and Refuelling (including spill kits)	Appendix 1a: Sections 3.3.11.2, 3.3.22.1 and 3.3.24.1	Appendix 1b: 3c(xi) and 3c(xxi) Appendix 2b: RA1 and	Appendix 2c: Sections 8; 9.7; 10.7; 11.5; and 12.7

Section of CEMP	Topic	AMC UK Documents	NMC Ltd Document	W J Groundwater Documents
		Appendix 1a: Section 8.1.2 Appendix 2a: RA1 and MS3	MS3	
Section 11.4	Non-extractive Waste	Appendix 1a: Section 3.3.9.1 Appendix 1a: Section 8.1.2	Appendix 1b: 3c(viii)	N/A

## 12 Incident and Emergency Planning

- 12.1.1 The PMPs (**Table 12-1**) detail actions that will be taken to minimise the risk of pollution incidents occurring on site and identifies the actions to be taken in the event of a pollution incident.
- 12.1.2 Environmental Emergency Preparedness Plans (EEPP) have been prepared by AMC UK and NMC Ltd and they specify the actions to be undertaken in the event of an environmental emergency or a breach of the measures set out in the EAIA. The EEPP will be displayed on all site notice boards. In accordance with the EEPP, the Contractor's Environmental Manager will be notified of environmental incidents.
- 12.1.3 In the event of a pollution incident the EEPP must be followed. The Project Manager / Contract Manager will be informed immediately and immediate steps taken to minimise the impact of the incident.

### 12.2 Information in the PMPs, RAMS and EMP

- 12.2.1 More detailed information about the issues addressed in Section 12 can be found in the PMPs produced by AMC UK and NMC Ltd, the RAMS produced by W J Groundwater and the EMP produced by AMC UK. **Table 12-1** below identifies where within each document this additional information can be found.

Table 12-1 Location of Information relating to Incident and Emergency Planning

Section of CEMP	Topic	AMC UK Documents	NMC Ltd Documents	W J Groundwater Documents
Section 12.2	Incident and Emergency planning	Appendix 1a: Sections 2.6, 2.9, 2.10, 3.3.23 and 3.3.25 Appendix 1a: Section 9 and Appendix C	Appendix 1b: Sections 2c(xii) and 3c(xxii)	Appendix 2c: Section 5



## Appendices



## Appendix 1a

# AMC UK Woodsmith Mine Phase 3 Project Management Plan



**Appendix 1b**

**NMC Woodsmith Mine Phase 3 Project Management Plan**



## Appendix 2a

### AMC Woodsmith Mine Phase 3 Concrete Batch Plant Set Up RAMS



## Appendix 2b

### NMC Woodsmith Mine Phase 3 Enabling Works RAMS





## Appendix 2c

### W J Groundwater Woodsmith Mine Phase 3 Dewatering RAMS



## Appendix 3a

### North Midlands Construction's ISO40001 Certificate



## Appendix 3b

### North Midlands Construction's Environmental Policy



## Appendix 4

# Community and Stakeholder Engagement Plan



## Appendix 5

### Sample Environmental Inspection Record Form



## Appendix 6

### Complaints Procedure



## Appendix 7

### Temporary Structures



## Appendix 8

### Woodsmith Mine Phase 3 Dust Management Plan



## Appendix 9

### Precautionary Method of Working for Site Clearance



## Appendix 10

### Woodsmith Mine Phase 3 Arboricultural Method Statement