

Havant Thicket Reservoir

Dust Management Plan

Main Reservoir Works

11/03/2024 Rev P03

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Author(s)	Stephen Blunt		
Drafted by:	Stephen Blunt		
Checked by:	J.Hanson	Date:	11/03/2024
Approved by:	G.Lloyd	Date:	11/03/2024

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1.0 Introduction

- 1.0.1 In 2020, planning applications (reference APP/20/00990 and 51680/001) were submitted to Havant Borough Council (HBC) and East Hampshire District Council (EHDC) for permission to develop a reservoir for raw water storage. Planning permission was subsequently granted in 2021 subject to Conditions¹. Whilst planning consent was received from two authorities, the wording of the decision notices is identical and therefore the same Conditions apply to both permissions.
- 1.0.2 This Dust Management Plan (DMP) has been prepared by Future Water MJJV for the Main Reservoir Works (MRW) phase at Havant Thicket Reservoir (as described below). Separate plans will be prepared for related works at the Bedhampton and Farlington sites.
- 1.0.3 This document forms one component of the Construction Environmental Management Plan (CEMP) required to discharge Condition 5 of the permissions. The Dust Management Plan will remain a live document, being reviewed and updated as required in conjunction with the CEMP. The CEMP will be submitted to HBC and EHDC for approval prior to the start of each Phase of construction.
- 1.0.4 This document outlines the measures to be taken to reduce the generation of dust at Havant Thicket Reservoir during the Works. If not adequately controlled, dust emissions from the works will lead to increases in dust concentrations beyond the site boundary, which may affect local amenity and influence local air quality. This could have a detrimental effect on people's health including the workforce and the local community. The Future Water technical team should be contacted for further advice on dust management.
- 1.0.5 The project works are being implemented in phases as set out in the Detailed Phasing Plan (document ref HTR-FUW-RZ-DP-W-507) which is to be submitted to discharge planning condition 4. This Dust Management Plan has been prepared to cover works activities, since some activities apply across more than one phase and some phases will be carried out concurrently.
- 1.0.6 Phase 1 of the construction consists of the following items, carried out in 2022 – 2023:
- Construction of new junction off the B2149 including carriageway re-profiling
 - Construction of new access road into the site from the new B2149 junction henceforth referred to as the Northern Access Route (NAR)
- 1.0.7 This DMP is for the works currently within the Main Reservoir Works scope, which includes:

¹ Permission details available at these links: [APP/20/00990](#) and [51680/001](#)

Table 1.1 – Work Phases

Work Activity	Prep	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8	Phase 9
Preparatory earthworks incl. temporary drainage system, archaeological investigation, deconstruct trial embankment, construct trial chimney drain	☑.								
Establishment of site compound in north west corner of the site	☑.								
Construction of Wetland embankments and control structures		☑.							
Construction of new earthwork main embankment			☑.						
Construction of valve tower			☑.						
Construction of new junction onto Swanmore Road to connect the Southern Access Route with the existing highway network.				☑.					
Construction of new control House and Associated MEICA					☑.				
Construction of bi-directional pipework					☑.				
Construction of Secondary means of access to outlet tower						☑.			
Construction of Reservoir Spillway							☑.		
Raising of existing Forestry England track & construction of 2nr new culverts								☑.	
Construction of new access roads and footpaths								☑.	
Construction of Visitors Centre (Outside of contract scope – to be discharged at later date)									☑.

1.0.8 The Detailed Phasing Plan ref HTR-FUW-RZ-RE-DP-W-0507 is being finalised at the time of preparing this DMP (September 2023) and should be referred to for further detail.

1.1 Record of Environmental Actions and Commitments

1.1.1 The planning permissions were granted on the basis of a number of environmental actions and commitments made in the Environmental Statement² which accompanied

² Appendix A2 Description of the Development A2.1 Outline Environmental Management Plan (OEMP). HTR-ATK-XX-XX-RP-Z-0069 RevC02

the planning applications. The Record of Environmental Actions and Commitments (REAC) captures these actions which are required to be adhered to, at the pre-construction, construction and operation stages. **Table 1** presented in section 6 of this document reproduces those REAC commitments that are required to be adhered to during construction as they relate to works within the scope of this document.

1.2 Environmental Statement

1.2.1 The Environmental Statement Volume 2 Chapter 14 Air Quality (document HTR-ATK-ZZ-ZZ-RP-Z-0107) indicates (Table 7-10) that the area surrounding the reservoir site is sensitive to dust soiling but at low risk to human health and ecological receptors. As there is no demolition activity within the main reservoir site, the dust risk arises from earthworks, construction and trackout (the transfer of soil materials to road surfaces and subsequent mobilisation as dust).

1.2.2 The nature of potential dust generation on site may vary, but works are more prone to generate dust when in a dry state and in windy conditions. Control measures will be implemented to control emissions of dust and other emissions to air and reduce human exposure, by:

- Prevention,
- Suppression, and
- Containment.

1.2.3 The REAC (see section 1.1) sets out a detailed list of good practice mitigation measures including those for site-specific activities.

2.0 Project Information

Project Name	Havant Thicket Reservoir Enabling Works
Project Number	C1294
Client	Portsmouth Water
Principal Contractor	Future Water MJJV Ltd
Person Responsible for Updating this Dust Management Plan	Geraint Lloyd
Role in the Project	Contract Manager
Site Address	Land at Swanmore Road, Havant

3.0 Distribution & Review

3.1 Distribution

3.1.1 This Dust Management Plan must be kept on site at all times. The controlled copy, held by *Geraint Lloyd* must be available for members of the Future Water workforce, subcontractors and the client.

3.1.2 The controlled copy of this Plan is held by:

Name	Position	Company
Geraint Lloyd	Contract Manager	Future Water MJJV Ltd

3.1.3 Each subcontractor must be familiar with the control measures and procedures outlined in this Plan.

3.2 Review

3.2.1 This plan shall be reviewed as often as is required to ensure that it reflects the progress of the project and in any event, not less than every 6 months.

Date	Name	Nature of Changes	Signed
05/10/2022	Stephen Blunt	Main Works Initial Draft	Stephen Blunt
07/03/2023	Stephen Blunt	Updated and developed	Stephen Blunt
18/08/2023	Stephen Blunt	Amended following internal review	Stephen Blunt
21/09/2023	Stephen Blunt	Amended following PW review	Stephen Blunt

4.0 Potential Receptors of Dust

4.1.1 The Havant Thicket Main Reservoir Works has numerous receptors of dust pollution. These include:

- Workforce (operatives and staff)
- Existing and other contractors on site (e.g. Tilhill)
- Farm and wild animals, grazing land and habitats
- General Public
 - Persons using public transport (bus stop) adjacent to site
 - Public taking children to nearby school
 - People within/outside adjacent properties
 - People using Forestry England Track/Public Rights of Way
 - People using Public Right of Way crossing the site (East – West)

4.1.2 Havant Thicket has residential properties to the West, South and East of the site. Swanmore Road properties are approximately 60m from the closest point of the reservoir embankment. Houses on the northern edge of Winterslow Drive are approximately 150m from the closest point of the embankment, and houses near the

B2149 – Redhill Road junction are approximately 140m from the embankment, at the closest point. These properties and residents are potential receptors for any dust pollution created on site. There is also a primary school (Warren Park) situated approximately 210m from the nearest part of the embankment.

4.1.3 The prevailing wind direction in this area is from the south-west to north-east.

4.1.4 The receptor sites for dust can be found within Appendix 2

5.0 General Controls During Works

5.1 Access and Haul Roads

5.1.1 Access for all site workforce and materials delivery vehicles, as well as all plant and equipment, will be via the Northern access on the B2149, approximately 1km N of the Manor Road – Castle Road junction, which is being formed as part of the Enabling Works. This site access once built will be approved by Hampshire County Council for use. The number of movements a day will be managed in accordance with the Transport Management Plan. Delivery routes will be established with all suppliers and they will enter into a traffic routing agreement. Suppliers will be sent a map illustrating the access routes that will be followed during the works.

5.1.2 A Traffic Management Plan will be produced and briefed to all persons prior to works.

5.1.3 The main access road will be surfaced with bituminous material to minimise the risk of mud being carried onto the highway and forming dust.

5.2 Vehicles and Mobile Plant

5.2.1 All vehicles used on site will be regularly maintained to minimise exhaust emissions. All plant and vehicles will follow the traffic management plan. Site speed limits will be limited to 10mph. Site Management will ensure that HGVs leaving site are checked for the presence of mud and/or debris and are covered to keep dust to a minimum. Vehicles leaving the area will be cleaned with a jet wash if required. If this is not suitable then a road sweeper will be employed to maintain the cleanliness of the road.

5.3 Skips/Waste Disposal

5.3.1 Burning of any material will not be permitted on site. As much waste as possible will be recycled and remaining waste will be removed from site in a timely manner using licensed waste removal contractors. Skips containing dusty wastes will be securely covered or sheeted over.

5.4 Borrow Pits

5.4.1 The extraction of materials for the embankment will be carried out over three earthworks 'seasons' and suspended during each intervening winter period. Each

borrow pit will be divided into three phases and worked so that the floor level of each phase is reached in one season. Consequently the floor level and some side slopes will then be exposed to the elements for up to three years before the reservoir is filled. To protect these clay surfaces from weathering and erosion by wind and rain they will be covered with site-won subsoil or topsoil and sown with a stabilising cover of grass species chosen to withstand poor soils and difficult conditions. Once sown, these surfaces will not be driven or tracked over by vehicles and plant so that there is no disturbance that could raise dust.

5.5 Stockpiled Materials

- 5.5.1 Ground materials excavated from the borrow pits will be damp as dug, and either placed directly into the embankment for compaction (with further wetting where needed) or placed into short-term stockpiles for a period of no more than a few weeks, until needed. These will be 'sealed' against both rain erosion and dust-blow by tracking over or use of the excavator bucket, so that a surface 'crust' is formed.
- 5.5.2 The materials are predominantly clay and so will not have a loose surface prone to dust mobilisation, unless disturbed.
- 5.5.3 Drainage sand of 0 – 4mm grading will be imported to site as required during the embankment construction and either used directly in the embankment drainage layer or stockpiled alongside the embankment until needed. The stockpile locations will be at least 250m from receptors outside the site, and so the combination of distance and direction makes dust mobilisation and transmission to these receptors very unlikely. The use of temporary sheeting has been considered but discounted due to the very low probability of any nuisance and the impracticality of securing a temporary sheet in wind conditions where dust transmission could occur.

6.0 Specific Operational Controls

6.1 Measures set out in Register of Environmental Actions and Commitments

- 6.1.1 The Dust control measures set out in Table 1 will be applied throughout the implementation of works under this DMP. Additional specific controls are noted in section 6.2.

Table 1 REAC commitments

Extracts from Table 3-1 - Record of Environmental Actions and Commitments (REAC): Reservoir Site		
Ref	Objective	Actions/commitments (incl specific location and any monitoring required)
AQ1	To limit and control emissions to air during construction to avoid direct and indirect impacts on community and ecological receptors.	Works will be carried out in accordance with the Best Practicable Means, as described in Section 79 (9) of the Environmental Protection Act (EPA) 1990, to reduce fumes or emissions which may impact upon air quality. Selected mitigation measures given in the IAQM Construction Dust Guidance which are applicable to high risk construction sites are described below. With appropriate mitigation measures in place, any adverse effects resulting from the construction works would be minimised such that there would not be any significant residual effect on receptors. The Principal Contractor will undertake mitigation measures to address construction dust from the site, taking into account the direct and indirect impacts of site preparation and construction works on residential and business uses, and ecological receptors. Mitigation measures, which are considered to be particularly appropriate near the properties to the south west and east of the reservoir site are identified below and include site management; monitoring; preparing and maintaining the Site: operations; and waste management; measures specific to demolition; measures specific to earthworks; measures specific to construction; measures specific to Trackout.
		Site management: • Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken; • Make the complaints log available to the local authority when asked; • Record any exceptional incidents that cause dust and/or air emissions, either on- or off- site, and the action taken to resolve the situation in the log book; • Hold regular liaison meetings with other high risk construction sites within 500 m of the site boundary, to ensure plans are co-ordinated and dust and particulate matter emissions are minimised. It is important to understand the interactions of the off-site transport/ deliveries which might be using the same strategic road network routes.

		Monitoring: • Undertake daily on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the local authority when asked. This should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100 m of site boundary, with cleaning to be provided if necessary; • Carry out regular site inspections to monitor compliance with the DMP, record inspection results, and make an inspection log available to the local authority when asked • Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions; • Agree dust deposition, dust flux, or real-time PM10 continuous monitoring locations with the Local Authority. Where possible commence baseline monitoring at least three months before work commences on site or, if it is a large site, before work on a phase commences.
		Preparing and maintaining the Site: • Plan site layout so that machinery and dust causing activities are located away from receptors, as far as is possible; • Erect solid screens or barriers around dusty activities or the site boundary that are at least as high as any stockpiles on site; • Fully enclose site or specific operations where there is a high potential for dust production and the site is active for an extensive period; • Avoid site runoff of water or mud; • Keep site fencing, barriers and scaffolding clean using wet methods; • Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site cover as described below; • Cover, seed or fence stockpiles to prevent wind whipping. Operating Vehicle/Machinery and Sustainable Travel: • Ensure all vehicles switch off engines when stationary - no idling vehicles • Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable;

		• Impose and signpost a maximum-speed-limit of 15 mph on surfaced and 10 mph on unsurfaced haul roads and work areas (if long haul routes are required these speeds may be increased with suitable additional control measures provided, subject to the approval of the nominated undertaker and with the agreement of the local authority, where appropriate); • Produce a Construction Logistics Plan to manage the sustainable delivery of goods and materials; • Implement a Travel Plan that supports and encourages sustainable travel (public transport, cycling, walking, and car-sharing). Operations: • Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems; • Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate; • Use enclosed chutes and conveyors and covered skips; • Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate; • Ensure equipment is readily available on site to clean any dry spillages, and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.
		Waste management: • Avoid bonfires and burning of waste materials; Measures specific to demolition³: • Ensure effective water suppression is used during demolition operations; • Avoid explosive blasting, using appropriate manual or mechanical alternatives; • Bag and remove any biological debris or damp down such material before demolition. Measures specific to earthworks: • Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable;

³ REAC text reproduced, but demolition is not planned within scope of this Dust Management Plan.

		• Use Hessian, mulches or tackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable; • Only remove the cover in small areas during work and not all at once.
		Measures Specific to Construction: • Avoid scabbling (roughening of concrete surfaces) if possible; • Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place; • Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery. Measures Specific to Trackout: • Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the site. This may require the sweeper being continuously in use. • Avoid dry sweeping of large areas; • Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport; • Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable; • Record all inspections of haul routes and any subsequent action in a site log book; • Install hard surfaced haul routes, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowzers and regularly cleaned; • Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable); • Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the site exit, wherever site size and layout permits; • Access gates to be located at least 10 m from receptors where possible.

6.2 Additional specific controls

6.1.2 Table 2 provides further prevention measures implemented on site to ensure the risk to dust pollution is reduced. These measures will be implemented as soon as works commence and will be monitored by site management throughout the works.

Table 2 Additional control measures

Emissions to the Atmosphere of Nuisance Dust (Soils)		
Location	Site operation	Prevention Measures
Borrow pit excavation areas; Culvert and control house	Soil stripping; Excavation and loading of clay materials	• Low risk: material retains some moisture until disturbed, so dust mobilisation unlikely • Low risk: natural water ingress from strata is anticipated so drying of material not likely • Avoid overfilling dump trucks so that material is not lost onto haul road surfaces • Any temporary soil stockpiles to be 'sealed' by surface compaction to minimise potential for dust mobilisation and erosion by rainfall (which generates silt that dries to become easily mobilised dust) • Trial pits backfilled promptly to minimise drying and ensure turf re-establishes
Haul Roads (internal)	Plant/vehicle use and material transportation on haul routes within site (soil dust raised by tyres and vehicle exhausts)	• Efficient operation by regular plant/vehicle inspection using SMART check sheets and reporting of dark exhaust fumes or smoke. <u>PFC075 Identifying, Planning & Performing Maintenance, Service, Inspection and Defects Rectification</u> to be followed. • Reduced speed limits on site to reduce dust creation • Do not over-rev vehicle engines when moving position • Haul roads to be inspected regularly and maintained to remove loose dust and debris using plant • Water bowser used to dampen any dust that arises • Plant windows to be kept shut with on-board climate control used to prevent dust entering driver's cabin
Embankment construction area	Placing and compacting clay	• Low risk: material damp when placed, and water added to achieve optimum moisture content before compaction • Low risk: surface layer wetted before covering, to ensure optimum moisture content during compaction of next layer • Low risk: wheeled vehicles do not traverse dry surfaces
Structures, culvert and hard landscape works	Cement and dusty materials, cutting pre-cast concrete elements	• Observe COSHH storage and handling procedures • Use sheltered locations or suspend operation in windy conditions • Water suppression when hard materials require cutting

Whole site (internal)	Site vehicle exhaust fumes including particulates and NOx	• Provide modern diesel fuelled plant and especially those with Ad Blue emission treatment systems that convert harmful nitrogen oxides into nitrogen and oxygen • Vehicles and plant not to be left idling • Generator to be switched off at the end of the working day
Public roads (external)	Congestion of roads (fumes) 'Track-out' causing dust	• Low risk: all transport via public highway will use the Northern Access point only, remote from residents. Before large-scale movements, ensure there is a traffic management plan in place to relieve congestion for local community • Ensure dry bulk materials being transported on vehicles to and from site are covered to reduce dust pollution to local community • Roads to be swept as needed to remove loose dust, and mud which can dry to generate dust
General	Management of operations, and communication	• Covers/lids used on waste skips if likely to produce dust in storage • Water bowser and water supply (on-site lagoon) available to dampen any other dust that arises • Specific works to have Dust Management Plan within Method Statements, where necessary • Ensure all site staff are aware of the importance of dust suppression through Toolbox Talks, and that visible dust, even if distant from receptors, can raise concerns • Communicate with local residents and stakeholders to explain dust suppression measures and advise if activities are planned close to properties
General	Monitoring and recording	• Monitor air quality using EN-a-004 Air Quality Monitoring Record* when dust/fumes are likely to or have arisen • Monitor whole of site using EN-a-001 Environment Inspection Daily Check* • EN-a-008 ECoW Log* to be completed by Environmental Specialist at a minimum of quarterly • Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken; • Make the complaints log available to the local authority when asked; • Record any exceptional incidents that cause dust and/or air emissions, either on- or off- site, and the action taken to resolve the situation in the log book; * Blank/sample forms presented in Appendix 3

Appendices

Appendix 1- Outline Masterplan from Environmental Statement Non-Technical Summary



LEGEND

- RED LINE BOUNDARY
- PERMISSIVE PATH - PEDESTRIAN USE (EXISTING)
- PERMISSIVE PATH - PEDESTRIAN USE (PROPOSED)
- BRIDLEWAY - PEDESTRIAN, CYCLE AND EQUESTRIAN USE (EXISTING)
- BRIDLEWAY - PEDESTRIAN, CYCLE AND EQUESTRIAN USE (PROPOSED)
- PATH - PEDESTRIAN AND CYCLE USE (PROPOSED)
- EXISTING CYCLE PATH
- LONG DISTANCE PATH
- TEMPORARY BRIDLEWAY DIVERSION (WILL BE REINSTATED TO PERMISSIVE PATH ACCESS)
- BIRD WATCHING
- CHILDRENS' PLAYGROUND
- PICNIC AREA
- VIEWING POINT
- CAR PARK
- VEHICLE ACCESS POINT
- ENTRANCE POINT
- EXISTING WOODLAND *
- NEW WOODLAND
- PROPOSED WET WOODLAND
- PROPOSED SCRUB REGENERATION
- PROPOSED WET GRASSLAND
- PROPOSED EMBANKMENT GRASSLAND
- PROPOSED WETLANDS
- PROPOSED RESERVOIR

* Proposed habitat enhancement areas within red line boundary

Rev	CD	Rev	CD	Rev	CD	Rev	CD	Rev	CD	Description	Date
Rev 2	CD	Rev 2	CD	Rev 2	CD	Rev 2	CD	Rev 2	CD	Rev 2	CD
Rev 1	CD	Rev 1	CD	Rev 1	CD	Rev 1	CD	Rev 1	CD	Rev 1	CD
Rev 1	CD	Rev 1	CD	Rev 1	CD	Rev 1	CD	Rev 1	CD	Rev 1	CD

ATKINS

Member of the SNC-Lavalin Group

Atkins West
500 Park Avenue
Alhambra
Bristol
BS32 4RZ
Tel: +44 (0)1454 662000
Fax: +44 (0)1454 663333
www.atkinsglobal.com

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Client: Portsmouth Water

Project Title: HAVANT THICKET RESERVOIR

Drawing Title: RESERVOIR OUTLINE MASTERPLAN

Project Ref: HTR

Sheet: 1 of 1

Scale: 1:2500

Drawn: AD

Appendix 2 – Receptors and main works layout



Appendix 3 – Blank / sample record forms

 Future Water MJJV Ltd	EN-a-001 - Environment - Inspection: Daily Check (Mandatory)
Project	C1294 – Havant Thicket Reservoir
Site Address	Havant Thicket Reservoir Havant PO9 4EU
Mobile User	Geraint Lloyd (GER028)
Date Submitted	13 Apr 2022 11:45:15 (UTC: +01:00)

LOCATION DETAILS

Enter location of check on site (Mandatory)	
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ENVIRONMENTAL CHECK

Has there been any overnight rain or adverse weather which may affect soils storage or erosion control measures	
Have all erosion control measures been checked out and as necessary made good or otherwise maintained?	
Are further checks necessary through the day as a result of ongoing adverse weather conditions?	
Have these additional checks been carried out?	
Is there a Suitable System for Dampening Down Dust if Needed?	
Is the site tidy and well maintained?	
Is the stripping and storing of soil resources being carried out, taking into consideration any mitigation of environmental risks?	
Are all soil and material stockpiles stored a minimum of 10 meters away from watercourses and drains?	
Are There Any Changes in Environmental Risks on Site? If Yes, Amend Environmental Documentation	

EN-a-001 - Environment - Inspection: Daily Check (Mandatory)

Project	C1294 – Havant Thicket Reservoir
Site Address	Havant Thicket Reservoir Havant PO9 4EU
Mobile User	Geraint Lloyd (GER028)
Date Submitted	13 Apr 2022 11:45:15 (UTC: +01:00)

Are the environmental impact mitigation measures (Silt Netting etc.) required being adequately inspected and maintained?	
Are the Wildlife Protection Measures Required being adequately inspected and maintained?	
Is present spill equipment suitable for the site and stored appropriately in the correct location for any spill which may take place?	
Are all small items of plant (e.g. stihl saws) and COSHH in use (e.g. ad blue) on drip trays or spill nappies?	
Is there Suitable Bunded Storage Available for all hazardous materials (Gas Oil, Waste Oil, Fuel, Ad Blue etc)?	
Have all fuel storage and handling facilities been visually checked for any pollution problems (e.g. hose left out, fill points within the bunded area etc)?	
Are the waste segregation and storage procedures in welfare and on site being adhered to, including segregation of hazardous waste streams(e.g. grease cartridges, used spill kits)?	
Have Waste Carriers Been Checked for Waste Carriers Licenses?	
Do skips and hazardous waste bins need emptying?	
Have Waste Disposal Sites Been Checked for relevant Permits for the waste being disposed?	



EN-a-001 - Environment - Inspection: Daily Check (Mandatory)

Project	C1294 – Havant Thicket Reservoir
Site Address	Havant Thicket Reservoir Havant PO9 4EU
Mobile User	Geraint Lloyd (GER028)
Date Submitted	13 Apr 2022 11:45:15 (UTC: +01:00)

Do cess pools require emptying?	
Have any Non Conformances or observations Requiring Action Been Instigated?	
Any other environmental issues observed (e.g. wildlife, litter)? Give detail below.	
Details of Other Observations?	
Supporting photographs (Mandatory)	
Supporting photographs	

ENERGY EFFICIENCY

Are Unit Lights Operated on Motion Detectors?	
Are all lights switched off when not in use?	
Are all doors and windows securely closed when heating is on, including in drying room?	
If Heaters Are Fitted with Thermostats, are they set appropriately?	

 Future Water MJJV Ltd	EN-a-001 - Environment - Inspection: Daily Check (Mandatory)
Project	C1294 – Havant Thicket Reservoir
Site Address	Havant Thicket Reservoir Havant PO9 4EU
Mobile User	Geraint Lloyd (GER028)
Date Submitted	13 Apr 2022 11:45:15 (UTC: +01:00)

Are all vehicles and Plant switched off where appropriate and not left idling?	
Is Plant Operating in the Correct Mode for the Activity?	
Is Work Planned to Minimize Non-Productive Work?	
Photo Evidence of Energy Saving Measures (Mandatory)	
Is Plant Maintenance Up to Date?	
Is the Generator Maintained and fuel usage recordings completed using EN-a-002 Environmental Daily Generator Fuel Recording?	
Any Other Observations to Note?	
Photograph(S) of any Non Conformance or Observation.	
Photograph(S) of any Non Conformance or Observation.	

INSPECTION DETAILS

Inspectors Name	
-----------------	--



EN-a-001 - Environment - Inspection: Daily Check (Mandatory)

Project	C1294 – Havant Thicket Reservoir
Site Address	Havant Thicket Reservoir Havant PO9 4EU
Mobile User	Geraint Lloyd (GER028)
Date Submitted	13 Apr 2022 11:45:15 (UTC: +01:00)

Inspectors Signature	
Date & Time of Inspection	

 Future Water MJJV Ltd	EN-a-004 - Environment - Daily Air Quality Monitoring Record (Site Specific)
Project	C1294 – Havant Thicket Reservoir
Site Address	Havant Thicket Reservoir Havant PO9 4EU
Mobile User	Geraint Lloyd (GER028)
Date Submitted	13 Apr 2022 11:53:47 (UTC: +01:00)

LOCATION DETAILS

Enter location of check on site	
---------------------------------	--

AIR QUALITY MONITORING RECORD

Weather Conditions	
Ground Condition	
Air Quality	
Extent of Dust Spread	
Action Required	
Action Taken	
Actions/Comments	
Action Implemented	
Any Supporting Photographs	

 Future Water MJJV Ltd	EN-a-004 - Environment - Daily Air Quality Monitoring Record (Site Specific)
Project	C1294 – Havant Thicket Reservoir
Site Address	Havant Thicket Reservoir Havant PO9 4EU
Mobile User	Geraint Lloyd (GER028)
Date Submitted	13 Apr 2022 11:53:47 (UTC: +01:00)

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INSPECTION DETAILS

Inspectors Name	
Inspectors Signature	
Date & Time of Inspection	

 Future Water MJJV Ltd	EN-a-008 - Environment - ECOW Log (Quarterly)
Project	C1294 – Havant Thicket Reservoir
Site Address	Havant Thicket Reservoir Havant PO9 4EU
Mobile User	Geraint Lloyd (GER028)
Date Submitted	13 Apr 2022 11:58:57 (UTC: +01:00)

INFORMATION

This ECOW log is for Jones Bros Environmental Specialists to document environmental observations both positive and negative providing Advisory, Good Practice and Immediate Action comments	
Site Information	
Weather Summary	
Are there any non-native/invasive species?	
If answered Yes above please enter details here with any required actions	
Are there any environmental restrictions or boundaries in place?	
If you answered Yes above please provide details here	

TURBIDITY READINGS

Are there Turbidity readings being taken on this site if YES enter readings below if NO go to Images and observations	
Turbidity Readings Table	
Summary of Data	

 Future Water MJJV Ltd	EN-a-008 - Environment - ECOW Log (Quarterly)
Project	C1294 – Havant Thicket Reservoir
Site Address	Havant Thicket Reservoir Havant PO9 4EU
Mobile User	Geraint Lloyd (GER028)
Date Submitted	13 Apr 2022 11:58:57 (UTC: +01:00)

OBSERVATIONS & IMAGES

Key	
Observations and images can include positive and best practice	
Red - Immediate Action Required, Yellow - Advisory, Green - Good Practice, Gold - Excellent Site Practice	
Observations & Images	

INSPECTION DETAILS

Inspectors Name	
Inspectors Signature	

PROJECT/SITE UPDATE/COMMENTS

To be completed when the Project/Site has comments or an update on the ECOW log	
Update/Comment	