

Environmental Management Plan

Site Name	Cambridge STW
Site Address	Cowley Road, Cambridge CB4 0DL
Short Code / Ref No.	CAMBST
Catchment	ESTA

This is a controlled template and should not be altered unless authorised.

The content of this document should be reviewed and signed off by the relevant managers on an annual basis and audited on a biennial basis by the business unit auditors. [C] [A]

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Paul Tovell		Catchment manager	Approved	3-9-13
Ceri Williams		Site manager	Update with third party information	3-9-13
Ceri Williams		Site Manager	Update	18-2-15
Ceri Williams		Site Manager	Update	7-7-16
Pete Joyce		Regional Treatment Manager	Approved	
Ceri Williams		Site Manager	Review	23/10/17
Philip Seamons		Site Manager	Review	03/05/19

Philip Seamons		Sludge Treatment manager	Review	01/05/2020
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Contents

INTRODUCTION.....	4
1 SITE INFORMATION	5
1.1 SITE DESCRIPTION	5
1.2 SITE LOCATION	5
1.3 PERMITS / PERMISSIONS / LICENCES.....	6
2 CONTACT INFORMATION.....	7
2.1 OPERATIONAL CONTACTS [P] [D].....	7
2.2 EMERGENCY CONTACTS	7
2.3 THIRD PARTY CONTACTS	7
3 RISKS AND MITIGATIONS.....	8
3.1 RISK IDENTIFICATION [P].....	8
3.2 RISK MITIGATION.....	8
3.2.1 Spill control.....	8
3.2.2 Reporting an incident.....	8
3.2.2 Odour event.....	8
3.2.4 Damage to a habitat.....	9
3.2.5 Other risks identified.....	9
3.3 PERMIT CONDITIONS	9
3.4 SPECIFIC PLANS.....	10
3.4.1 Odour.....	10
3.4.2 Gas	10
3.4.3 Site Closure Plan	10
4 SITE MANAGEMENT.....	11
4.1 WASTE MANAGEMENT	11
4.1.1 Identification of wastes	11
4.1.2 Location of wastes	11
4.1.3 Management of contractors exporting waste.....	12
4.1.4 Management of importing waste.....	12
4.2 BIODIVERSITY	14
4.2.1 This Site [P].....	14



4.2.2	Active biodiversity.....	14
4.2.3	Rules for biodiversity	14
5.	OTHER DOCUMENTS	15



Introduction

This document has been designed to cover the Plan, Do, Check, Act methodology used in all Management Systems.

PDCA is the founding principle of this document and therefore the references throughout are in relation to these definitions:

P – Plan – what is the situation, what do we need to achieve and how are we to achieve it?

D – Do – what are the controls in place to ensure that we do our everyday actions without impacting the environment in this area?

C – Check – how do we check that these controls are working and how do we report when they are not?

A – Act – what is the escalation process/review process when things are checked and seen to be not performing?

The key focus of this document is to identify existing processes and controls that cover environmental risk and identifying and addressing those areas that are not adequately covered. Therefore all processes and controls referred to in this document should be adhered to and this document's controls regarded in the same vein for site specific controls.

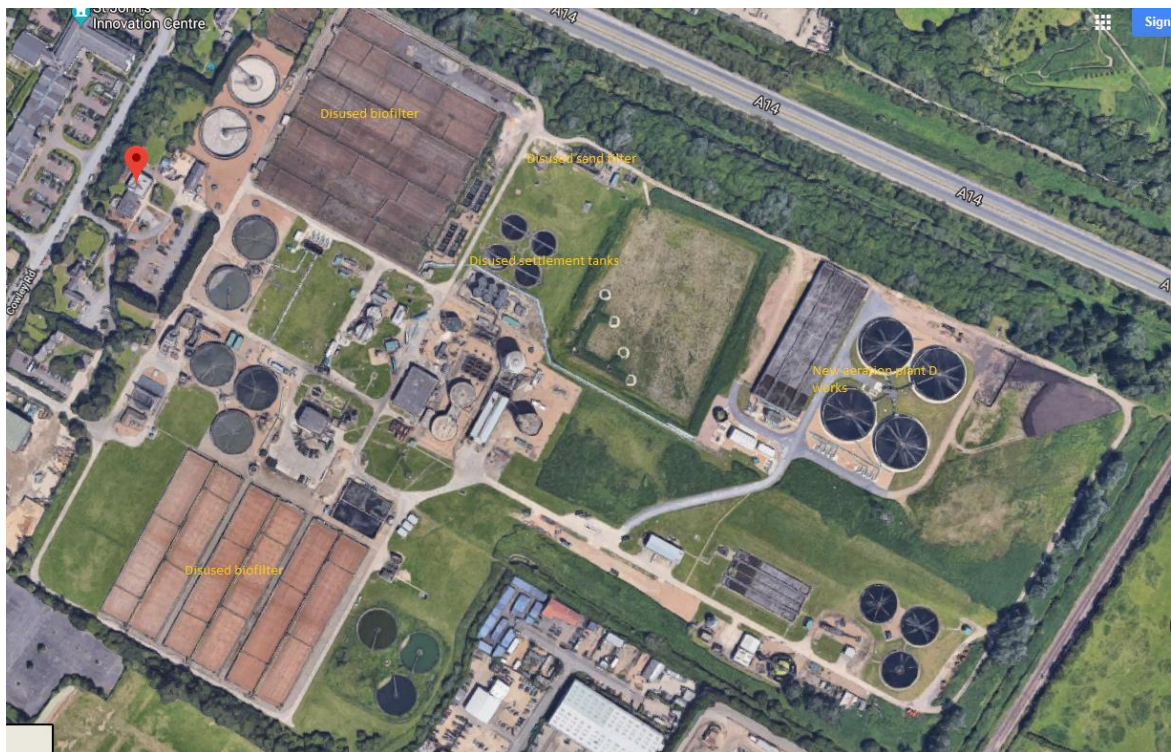
1 Site Information

1.1 Site Description [P]

The site is a Water Recycling Centre located north of the city of Cambridge. The site is bounded by the A14 to the north, a railway to the east, a science park to the west and industrial units to the south. Further north across the A14 is a residential area (within 500m). On site there are numerous buildings and offices both operational and administrative.

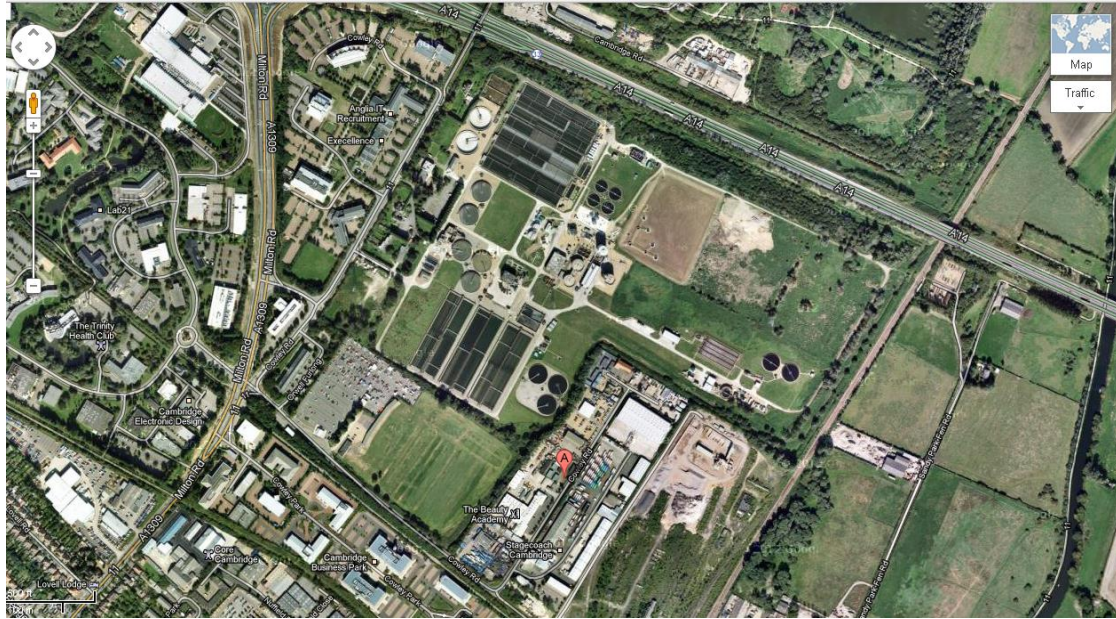
The site imports sludges from other sewage treatment works in the region. The planned daily import volume of sludge is 5-600 cubic metres, the site is open 7 days a week. An assistant manager has been appointed to support the manager at the site.

The sludge treatment on site produces gas which is used to power a Combined Heat and Power plant (CHP). The governance of these activities is described later.



1.2 Site location [P]

The River Cam is located approx. 500metres to the east of the site. The Milton Road Hedge County Wildlife Site is situated 100m to the north of the site. The city centre is approx. 1.5km to the south



1.3 Permits / Permissions / Licences [D]

This table highlights the permits, exemptions and licences that relate to the sites operation and its impact on the environment:

Ref No.	Description	Regulation	Location held
EPR/LP3196ER 101864	Sludge treatment permit	EPR – Waste	HAWK central folders and hard copy in site office
EPR/WP3535HT	Combined Heating Power permit	EPR – Waste	HAWK and hard copy in site office
ASCNF/1033	Discharge permit	EPR – Water	HAWK
ALC 228	Hazardous waste	EPR – Waste	HAWK
MWRP RPS 007	Cess and Septic	EPR-Waste	HAWK-RES

The conditions relating to these permits are held within the permits and summarised in section 3.3

2 Contact information

2.1 Operational Contacts [P] [D]

Peter Joyce	Regional treatment manager	07841958572
Steve Boulton	Tactical support	07885 135281
Philip Seamons	Treatment Manager	07740072156
Danny Gillingham	Assistant Manager	07764985893
OMC	Duty Manager	08450 703446
CHP	Tim Orsbourne	07725608662

2.2 Emergency Contacts [P] [D]

OMC	Duty Manager	08450 703446
CHP	OMC maintenance	03450267672
EA NIRS		08450 8503518

2.3 Third Party Contacts [P] [D]

CHP	CHP team	07725608662
RES(Tankers)		01223 542888

Third party management

All third parties operating on AW sites will follow AW environmental controls or their own in house controls should they be more stringent.

All environmental incidents will be notified to the senior AW representative on site at the time of the incident or called through to the OMC should the site be unmanned.

AW site personnel are responsible for ensuring that adequate environmental controls are in place, for instance that third parties adhere to the clauses in the O&M standard contracts about environmental controls. This will be reviewed at each appropriate contract review meeting.

3 Risks and mitigations

3.1 Risk Identification [P]

An environmental Risk Assessment was completed as part of the formation of this plan. The ERA is appended to this document (when printed) and as a standalone document on HAWK.

There is a Sludge treatment centre operational and contingency plan at the following location. AW_HH_US_BSY/Publish/Electronic Document Control Library/Wastewater LDC/STC Action plans. This document is reviewed at max 12 month intervals.

3.2 Risk Mitigation [P] [D]

Please see sections below

3.2.1 Spill control

Ref WWS-PRO-8.13

All fuel and chemical tanks on site are bunded. Bunds are inspected regularly and rainwater removed as necessary.

Spill kits and equipment (granules, absorbent pads and booms) are stored on site in the inlet control building.

All site drainage of sealed areas is to the on-site TPS.

There has been extensive work carried out on site to divert road gully drainage back to the inlet.

3.2.2 Reporting an incident

See odour management plan on HAWK

Activities which may give rise to odours are reported to OMC for logging.

Third party odour complaints are investigated by site operational staff and findings reported to the Treatment manager and OMC.

The CHP is remotely monitored by OMC who arrange for CHP team staff to respond to telemetry alarms

Discharge consent issues are reported to OMC and if appropriate the Environment Agency. Minor consent issues are managed locally by the Treatment manager and process scientist through the local EA officer

3.2.2 Odour event

Ref

WWS-POL-010

WWS-STD-010

WWS-PRO-10.01

Odour Management plan is located on HAWK

Third party reported odour issues are deployed by OMC to site staff who will investigate and report to the treatment manager and OMC.

3.2.4 Damage to a habitat

Vehicles should keep to roads and hard stand areas therefore no habitat damage is expected from vehicle movements. There are no known Badger setts on site.

No tree or hedge management shall be carried out between 1 March and 31 July (as per Wildlife and Countryside Act 1981 (Amended)) to minimise disruption during the bird breeding season.

3.2.5 Other risks identified

Cold weather causing site equipment failure

Trace heating has been fitted to vulnerable pipework where possible.

Portable heaters are kept on site (in inlet building)

Salt supplies are kept on site (near blower house)

Road gritting is carried out by an appointed contractor as required

Off-road vehicles are available

3.3 Permit conditions

Reporting is as follows:

Title	By who	measure	when
Waste returns	C Williams	Tonnes	Quarterly
CHP output	Tom Wayling	Units	Annual
CHP emissions	Tom Wayling	Units	Annual

- Annual maximum volume is 250,000 tonnes
- Emissions limits
 - 500mg/m³ NO₂
 - 1400mg/m³ CO
 - Monitor VOC levels
- Improvement conditions.
- Please see permit for details

3.4 Specific Plans

Each site has a comprehensive library of documents that support the efficient and successful operation of the site. This plan is not going to detail those plans but direct the reader to the locations of the plans.

3.4.1 Odour

Odour management plan on HAWK
Review to be minimum 24 monthly

3.4.2 Gas

Gas plan on HAWK Review to be minimum 12 monthly

3.4.3 Site Closure Plan

Cambridge response and recovery plan on HAWK
Review to be minimum 12 monthly

4 Site Management [D]

This section looks at the management of site to minimise impact to the environment.

4.1 Waste Management

Waste management is a highly regulated activity and as a site we have regulatory obligations with regards importing and treating waste as well as the standard Duty of Care obligations. This section looks at those obligations.

4.1.1 Identification of wastes [P]

The activities on this site generate a wide range of wastes. Primarily though we generate:

EWC code	EWC Description	AW Description
19 08 05	Sludge from Urban wastewater treatment	Sludge
20 03 06	Screenings	Grit and screenings
20 01 01	Paper and cardboard	Paper and cardboard
20 01 40	Metals	Metal
20 01 21	Fluorescent tubes	Fluorescent tubes
20 03 01	Mixed municipal waste	General waste
20 01 38	Wood(other than that in 20 01 37)	Wood
15 02 02	Absorbent filter materials. wiping cloths, protective clothing contaminated by dangerous substances	Oily rags
13 02 08	Other engine gear and lubricating oils	Waste oil
16 01 07	Oil filters	Oil filters

4.1.2 Location of wastes

Waste storage on this site is part of our normal operations the diagram below highlights areas where wastes are stored in skips and other waste containers. The processes that treat waste are labelled.

4.1.3 Management of contractors exporting waste [D]

Anglian Water has 11 waste streams removed from this site. These are managed and controlled in the following manner:

EWC Code	EWC Description	Carrier	Broker	Disposal Route
19 08 05	Sludges from urban wastewater treatment	Biosolids		Recycled to land
19 08 01	Screenings	Biffa		Landfill
20 03 01	Mixed municipal waste	Biffa		recycling
20 01 01	Paper and cardboard	Biffa		recycling
20 03 06	Waste from sewage cleaning	Biffa		Landfill
20 01 38	Wood other than that in 20 01 37	Biffa		recycling
20 01 40	Metals	Biffa		recycling
20 01 21	Fluorescent tubes	Biffa		recycling
16 01 07	Oil filters from vehicles	Biffa		Landfill
15 02 02	Absorbent filter materials(including oil filters not otherwise specified) wiping cloths, protective clothing contaminated by dangerous substances	Biffa		Landfill
13 02 08	Other engine gear and lubricant oils	Biffa		Treatment/recycling

Copies of the Waste Transfer Notes and Consignment Notes for these waste movements (skips and the like) can be found in the works operational office. Wastes that are disposed of to land by RES and Biosolids have comprehensive records held by RES and Biosolids and can be obtained from the Biosolids office in Milton House Cambridge

4.1.4 Management of importing waste

Waste is imported to this site as part of the waste operations. The site accepts cess and septic waste outwith the permit. The imports are managed under MWRP RPS 007 covering the import of domestic waste. Licensed carriers deliver cess and septic waste under the management of RES

This site does accept transfers of AW waste falling under the classifications:

19 08 01	19 08 09	19 09 06
19 08 02	19 09 02	20 03 04
19 08 05	19 09 03	20 03 06

Copies of the Waste Transfer Notes for the import of Cess and Septic are covered by the signing in process and with a sampling regime to ensure that the waste is the correct classification. All records are sent to RES for processing. Sampling results are on the QDW system

Wastes that are imported by RES and Biosolids have comprehensive records held by RES and Biosolids and can be obtained from the biosolids office, Milton House Cambridge

4.2 Biodiversity

Biodiversity is important to AW and as part of this focus we are expanding our knowledge and understanding of the biodiversity on our sites.

4.2.1 This Site [P]

The biodiversity on this site has been surveyed whilst AW has been in ownership.

An initial walkover habitat survey was completed on 29-07-2011

Findings from the biodiversity surveys are held on the biodiversity database and will eventually be mapped on to overlays of each site.

Site specific considerations:

No trees, scrub or hedge works to be carried out during the bird nesting season(1 March to 31 July)

It is an offence to destroy the nest of any wild bird under the Wildlife and Countryside Act 1981(as Amended)

If works are undertaken to ditches or within 5m of ditches water vole and otter surveys should first be carried out by a suitable qualified ecologist.

No statutorily designated sites are located within the vicinity of the site.

4.2.2 Active biodiversity

All AW personnel are encouraged to act as the "eyes and ears" of the company and report any species that they see that has not previously been identified on the site. Details of new species to be sent to biodiversity@anglianwater.co.uk Here the surveys will be looked at and used to inform company decisions and so that the biodiversity team can provide support to the site.

4.2.3 Rules for biodiversity

There are some general rules which have been developed for operation on sites:

Do not drive on the grassed areas unless specifically authorised to do so.

Report all damage to trees and habitats caused on site.

Prior to any tree works being undertaken the Local Authority should be contacted to check for TPO

Refer to "Biodiversity: Guidance for Operations leaflets" for day to day operations (under construction by Biodiversity team)



5. Other documents

There are other historical documents stored on site. These are stored in the inlet control building and other site buildings and may be catalogued in the future.