

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Whitehead Restoration Limited

Former Astley Green Colliery Site

Lower Green Lane

Astley

Wigan

M29 7JZ

Permit number

EPR/GB3409HV

Former Astley Green Colliery Site

Permit number EPR/GB3409HV

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

This Environmental Permit authorises Whitehead Restoration Limited to operate a deposit of waste to land for recovery activity at a specified location. This area is currently overlain by historic colliery spoil deposits. The total quantity of waste that can be deposited on site shall be less than 550,000 m³, equivalent to 990,000 tonnes in accordance with the approved Waste Recovery Plan; annual waste acceptance shall be less than 450,000 tonnes per year. The recovery activity will last for approximately 30 months by which time the site should be restored to a satisfactory standard; material deposited will form a growing medium to restore historic colliery spoil deposits to agricultural and/or amenity use.

The site's surface water run-off is managed through a series of swales, settlement lagoons, dry detention basins and drainage channels; this surface water drainage network will be constructed prior to the commencement of the earthworks phase. There will be discharges from these settlement lagoons and detention basins into the surrounding watercourses; associated water discharge activities are incorporated into this waste permit to account for these point source emissions. Flow control devices limit the maximum daily discharge volume for the water discharge activities to greenfield run-off rates. The water discharge activities have permit limits for no visible oil and grease, pH, and suspended solids. Effluent and environmental monitoring will be included in the permit to verify the data and assumptions used in the H1 modelling; there will also be a requirement as an operation technique for the operator to keep a record of the rolling average concentration of each substance and maximum effluent concentrations and notify the Environment Agency if they exceed the average concentration used in the H1 screening submitted during the determination process.

The site is located within the relevant screening distance criteria (for waste operations) of 2km of Astley & Bedford Mosses (Site of Special Scientific Interest; SSSI) and Manchester Mosses (Special Area of Conservation; SAC), 200m of Marsh at Lower Green (Local Wildlife Site; LWS), and 50m of a Protected Species.

If you need to deploy mobile plant under a mobile plant permit at a site that is subject to a site based permit to enable you to complete the recovery activity, there will be inconsistencies between the requirements of the two permits and, in this situation, those of the site based permit prevail. Therefore you must be able to deliver the desired recovery activity through use of this permit alone, without relying upon the subsequent use of a separate mobile plant permit.

The status log of the permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application EPR/GB3409HV/A001	Duly made 19/11/2018	Application for a deposit for recovery activity and rainfall dependant discharge.
Additional information received	25/02/2019	Response to Schedule 5 Notice for detailed site condition report, hydrogeological risk assessment, and suitability of waste.
Additional information received	28/03/2019	Amendment to application to remove reference to waste code from original application documents.

Status log of the permit		
Description	Date	Comments
Additional information received	07/06/2019	Response to Schedule 5 Notice for detailed waste acceptance criteria and agricultural benefit statement.
Additional information received	14/06/2019	Response to Schedule 5 Notice for surface water management plan.
Additional information received	09/07/2019	Amendment to Agricultural Benefit Statement and Soil Specifications (Waste Acceptance Criteria) to remove reference to treatment.
Additional information received	02/10/2019	Amendment to Agricultural Benefit Statement and Soil Specifications (Waste Acceptance Criteria). H1 Risk assessment provided.
Additional information received	11/12/2019	Amendment to Soil Specifications (Waste Acceptance Criteria).
Additional information received	13/12/2019	Email confirmation from operator regarding commitment to additional discharge monitoring procedures.
Additional information received	23/12/2019	Updated Surface Water Monitoring Location plan.
Permit determined EPR/GB3409HV	10/01/2020	Permit issued to Whitehead Restoration Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/GB3409HV

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

Whitehead Restoration Limited ("the operator"),

whose registered office is

**One St Peter's Square
Manchester
United Kingdom
M2 3DE**

company registration number 08936769

to operate waste operations and a water discharge activity at

**Former Astley Green Colliery Site
Lower Green Lane
Astley
Wigan
M29 7JZ**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Tracey Pollard	10/01/2020

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Avoidance, recovery and disposal of wastes produced by the activities

- 1.2.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.2.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1, table S1.1 (the 'activities').

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.
- 2.2.2 The discharge activities shall take place at the discharge points marked on the site plan at schedule 7 to this permit, and as listed in table S3.1; and, the operating technique that is the subject of conditions prefixed by 2.3 shall be applied at the location shown, or otherwise described, in schedule 7.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ('plan') specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.4 Pre-operational conditions

- 2.4.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.3A have been complete.

2.5 Waste acceptance

- 2.5.1 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2, tables S2.1 and S2.2;
 - (b) it has been identified as a suitable waste in the approved waste recovery plan;
 - (c) its chemical, physical and biological characteristics make it suitable for its intended use on the site;
 - (d) it fulfils the approved waste acceptance criteria;
 - (e) all the approved waste acceptance procedures have been completed;
 - (f) it conforms to the description in the documentation supplied by the producer and holder;
 - (g) It is not waste consisting solely or mainly of dusts, powders or loose fibres;
 - (h) It is not hazardous wastes; and
 - (i) It is not waste in liquid form.
- 2.5.2 The operator shall:
- (a) visually inspect without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the site and waste at the point of deposit; and
 - (b) be satisfied that the waste conforms to the requirements of condition 2.5.1.
- 2.5.3 The total quantity of waste that shall be deposited under the permit shall be limited by the final levels shown on the final levels contour plan referenced in schedule 1 table S1.2.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3, table S3.1.
- 3.1.2 The limits given in schedule 3 shall not be exceeded
- 3.1.3 The operator shall prevent the input of any hazardous substances from the activities into groundwater.
- 3.1.4 The operator shall submit to the Environment Agency a review of the Hydrogeological Risk Assessment:

- (a) between nine and six months prior to the sixth anniversary of the granting of the permit, and
- (b) between nine and six months prior to every subsequent six year anniversary of the granting of the permit.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 For the activities referenced in schedule 1, table S1.1 the operator shall take appropriate measures to minimise so far as reasonably practicable the polluting effects of the emissions of substances in the discharge not controlled by emission limits (excluding odour).
- 3.2.3 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.4 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;

- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
 - (a) point source emissions specified in table S3.1; and
 - (b) surface water specified in table S3.2.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.1.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Accessible monitoring points shall be provided and maintained to enable the emissions monitoring programme and/or other monitoring and environmental monitoring to be carried out in relation to the emission points specified in table S3.1 and S3.2 of schedule 3 and shown marked on the site plan in schedule 7.
- 3.5.5 The operator shall undertake a topographical survey of the site referenced to ordnance datum that shall be used to produce a plan of a scale adequate to show the surveyed features of the site:
 - (a) prior to commencement of the recovery activity; and
 - (b) on completion of the recovery activity to show final waste levels.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
 - (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made or, in the case of the following records, until permit surrender:
 - (i) off-site environmental effects;
 - (ii) matters which affect the condition of the land and groundwater;
 - (iii) waste types and quantities; and
 - (iv) the results of effluent and surface water monitoring.
- 4.1.2 The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery, origin and the identity of the carrier and producer of any waste that is received for recovery. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.

- 4.1.3 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 Within one month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.2 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall submit the topographical survey plans required by condition 3.5.5 (a) and (b) to the Environment Agency within one month of the completion of the survey.

4.3 Notifications

- 4.3.1 In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
- (a) inform the Environment Agency,
 - (b) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (c) take the measures necessary to prevent further possible incidents or accidents;
- 4.3.2 In the event of a breach of any permit condition the operator must immediately—
- (a) inform the Environment Agency, and
 - (b) take the measures necessary to ensure that compliance is restored within the shortest possible time.
- 4.3.3 In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.4 Any information provided under condition 4.3.1 and 4.3.2 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.5 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.6 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.7 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.3.8 The operator shall notify the Environment Agency in writing:

- (a) at least 14 days before the commencement of the recovery activity;
- (b) within 14 days of completion of the recovery activity.

4.3.9 Where the operator proposes to make a change in the nature of the activity by increasing the concentration of, or the addition of, or allowing the introduction of, a substance to the activity to an extent that the operator considers could have a significant adverse environmental effect on the receiving waters, and the change is not permitted by emission limits specified within schedule 3 table S3.1 or the subject of an application for approval under the EP Regulations or under the terms of this permit:

- (a) the Environment Agency shall be notified in writing at least 14 days before the increase or addition or allowing the introduction; and
- (b) the notification shall contain a description of the proposed change.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made 'immediately', in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities	
Description of activities for waste operations	Limits of specified activity
R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Secure storage of wastes listed in Table S2.1 and S2.2 for the purpose of recovery. Storage of wastes listed in Table S2.1 shall be limited to three years. Storage of waste listed in Table S2.2 shall be limited to 12 months.
R5: Recycling/reclamation of other inorganic compounds	Use of waste types specified in Table S2.1 for the purposes of construction work and/or restoration, reclamation or improvement of land.
R10: Land treatment resulting in benefit to agriculture or ecological improvement	Use of waste to create a final growth layer. Wastes listed in Table S2.2 may only be recovered in the final 500mm layer of the scheme. Use of waste types specified in Table S2.2 in accordance with the approved benefit statement.
Description of activity	Limits of specified activity
Discharge of rainfall dependent site drainage via settlement lagoons (discharge points shown in Schedule 7)	The activity shall cease on or before 10/01/2023. The activity can only continue after this date under and in accordance with any written approval given by the Environment Agency.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Final levels contour plan: ST16518-001 – Section Lines Location Plan (dated 16 January 2018) ST16518-002 – Cross Sections (dated 16 January 2018) ST16518-003 - Site Layout (dated 16 January 2018)	19/09/2018
Application	Hydrogeological risk assessment: Hydrogeological risk assessment (dated January 2018)	19/09/2018
Response to Schedule 5 dated 04/02/2019	Annex 11 – Restoration Slope Stability Assessment	25/02/2019
Response to Request for Information dated 02/07/2019	Email dated 05 July 2019, 17:35; further information of testing frequency of waste streams.	05/07/2019
Response to Request for Information dated 09/07/2019	Agricultural Benefit Statement (dated October 2019)	02/10/2019
Response to Request for Information dated 25/11/2019	Surface Water Management Plan v2 (dated November 2019).	04/12/2019

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to Request for Information dated 11/12/2019	Waste acceptance criteria (dated December 2019): Waste Recovery Plan Appendix 4 - Soil and soil-forming materials specification	11/12/2019
Response to Request for Information dated 13/12/2019	Email dated 13/12/2019, 10:56 AM. Confirmation the operator will: • compare/verify sample data collected as part of the permit against the average/max values used in the screening/modelling; • monitor the rolling average of the effluent data collected as well as maximum concentrations; • inform the Environment Agency if the above monitoring data is greater than the max/average of the data provided in the modelling; and • inform the Environment Agency if any additional parameters that are not listed within the permit are detected when sampling.	13/12/2019
Response to Request for Information dated 20/12/2019	Proposed Surface Water Monitoring Locations Plan, ST16518-010 (dated 14/06/2019); Approved waste recovery plan: Annex 3 - Waste Recovery Plan (dated December 2019). Waste acceptance procedures: Waste Recovery Plan Appendix 7 – Waste Acceptance Procedures, LML 004 (dated 10 December 2015).	23/12/2019

Table S1.3A Pre-operational measures	
Reference	Pre-operational measures
1	Prior to the use of any of the wastes listed in Table S2.2, the operator shall provide the Environment Agency with evidence that the waste analysis is less than 12 month old. Where the waste analysis is greater than 12 months old, unless agreed in writing by the Environment Agency, the operator must re-analyse the waste and submit the results to the Environment Agency to confirm that the waste will provide the benefits originally approved. Wastes listed in tables S2.2 that have not been analysed within the past 12 months shall not be used without the prior written agreement of the Environment Agency.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for use of waste in deposit for recovery	
Maximum quantity	The total quantity of waste accepted at the site for the above activity shall be less than 335,000 tonnes per year. The total quantity of waste to be accepted at the site shall not exceed 550,000 m ³ .
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03 (excluding topsoil and peat)
17 05 06	dredging spoil other than those mentioned in 17 05 05
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 09	minerals (for example sand, stones)
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones (excluding topsoil and peat)

Table S2.2 Permitted waste types and quantities for use of waste in land treatment	
Maximum quantity	The total quantity of waste accepted at the site for the above activity shall be less than 115,000 tonnes per year. The total quantity of waste to be accepted at the site shall not exceed 550,000 m ³ .
Waste code	Description
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to water (other than sewer) – emission limits and monitoring requirements							
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method	Compliance Statistic
AG402SW, D1, D2, D3, D4, D5, D6 identified in Drawing ST16518-010	Settlement lagoons and detention basins	pH	6-9 pH units	Instantaneous (spot sample)	Monthly during earthworks phase. (when a discharge is occurring). Quarterly post completion.	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency.	Minimum and maximum
		Visible oil or grease	None visible significant trace present so far as is reasonably practicable	Instantaneous (visual examination)			No significant trace
		Suspended Solids (measured after drying at 105°C)	100 mg/l	Instantaneous (spot sample)			Maximum
		Ammoniacal nitrogen as N	N/A				N/A
		Sulphate (total)	N/A				N/A
		Chloride (total)	N/A				N/A
		Arsenic (total)	N/A				N/A
		Cadmium (dissolved)	N/A				N/A
		Chromium (dissolved)	N/A				N/A
		Copper (dissolved)	N/A				N/A
		Dissolved Organic Carbon	N/A				N/A
		Fluoride (dissolved)	N/A				N/A
		Lead (dissolved)	N/A				N/A
		Mercury (dissolved)	N/A				N/A

Table S3.1 Point source emissions to water (other than sewer) – emission limits and monitoring requirements							
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method	Compliance Statistic
		Nickel (dissolved)	N/A				N/A
		Zinc (dissolved)	N/A				N/A

Table S3.2 Surface water – other monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
AG402SW, AG409SW, AG411SW, AG412SW, WR1, WR2, WR3, WR4, WR5, WR6 identified in Drawing ST16518-010	Suspended solids (measured after drying at 105°C), pH, Oil and grease, Dissolved oxygen, Dissolved organic carbon Ammoniacal nitrogen as N, sulphate, chloride, arsenic, cadmium, chromium, copper, iron, fluoride, lead, mercury, molybdenum, nickel, selenium, zinc.	Monthly during earthworks phase. Quarterly post completion.	Spot sample	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), risk assessments for your environmental permit (www.gov.uk) or such other subsequent guidance as may be agreed in writing with the Environment Agency.

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data		
Parameter	Reporting period	Period ends
Emissions to water Parameters as required by schedule 3, table S3.1	Every 3 months including for at least one year after the final deposit of waste.	31 March, 30 June, 30 September, 31 December
Other surface water monitoring Parameters as required by schedule 3, table S3.2	Every 3 months including for at least one year after the final deposit of waste.	31 March, 30 June, 30 September, 31 December

Table S4.2 Reporting forms		
Media/parameter	Reporting format	Date of form
Effluent and surface water	Form Surface Water 1 or other form as agreed in writing by the Environment Agency.	DD/MM/YY
Topographical surveys and interpretation	Form as agreed in writing by the Environment Agency.	-

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any incident or accident which significantly affects or may significantly affect the environment	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances and/or duration of discharge	
Best estimate of the environmental impact of the discharge	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

(b) Notification requirements for the breach of a limit specified in schedule 3 table S3.1	
The information specified below is to be notified to the Environment Agency as soon as reasonably practicable following detection.	
Monitoring point reference/ source	
Self monitoring regime (where relevant)	
Type of failure	
Date of sample/event	
Parameter	
Result and units	
Limit and units	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	

Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

‘accident’ means an accident that may result in pollution.

‘Annex I’ means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

‘Annex II’ means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

‘agricultural benefit’ means providing, maintaining or improving the soils ability to provide a growing medium for the purposes of agriculture. Agricultural land has the meaning given by section 109 of the Agriculture Act 1947 and includes land for the production of timber and non-food agricultural crops.

‘application’ means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

‘authorised officer’ means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

‘Background concentration’ means such concentration of that substance as is present in:

- For emissions to surface water, the surface water quality up-gradient of the site; or

‘Benefit statement’ means the document required to demonstrate that activities involving the deposit of waste to provide a growing medium and/or nutrients to support plant growth (R10 for land treatment) would result in agricultural benefit or ecological improvement.

‘emissions to land’ includes emissions to groundwater.

‘emissions of substances not controlled by emission limits’ means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

‘groundwater’ means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“Hazardous substances” as defined by the Environmental Permitting (England and Wales) Regulations 2016, SI 2016 No.1154, schedule 22.

‘List of Wastes’ means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

‘inert waste’ means waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater

‘quarter’ means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

‘R’ means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

‘Site infrastructure’ means any specified element of the:

- surface water drainage systems;

within the site.

‘soil substitute’ means a material that serves as a direct replacement for soil and can only be used on a site where there is no existing soil profile.

No hazardous waste or dangerous substances may be included and the soil substitute must be free from contaminants such as asbestos fragments, plastics, glass, metals, treated timber, foils and films.

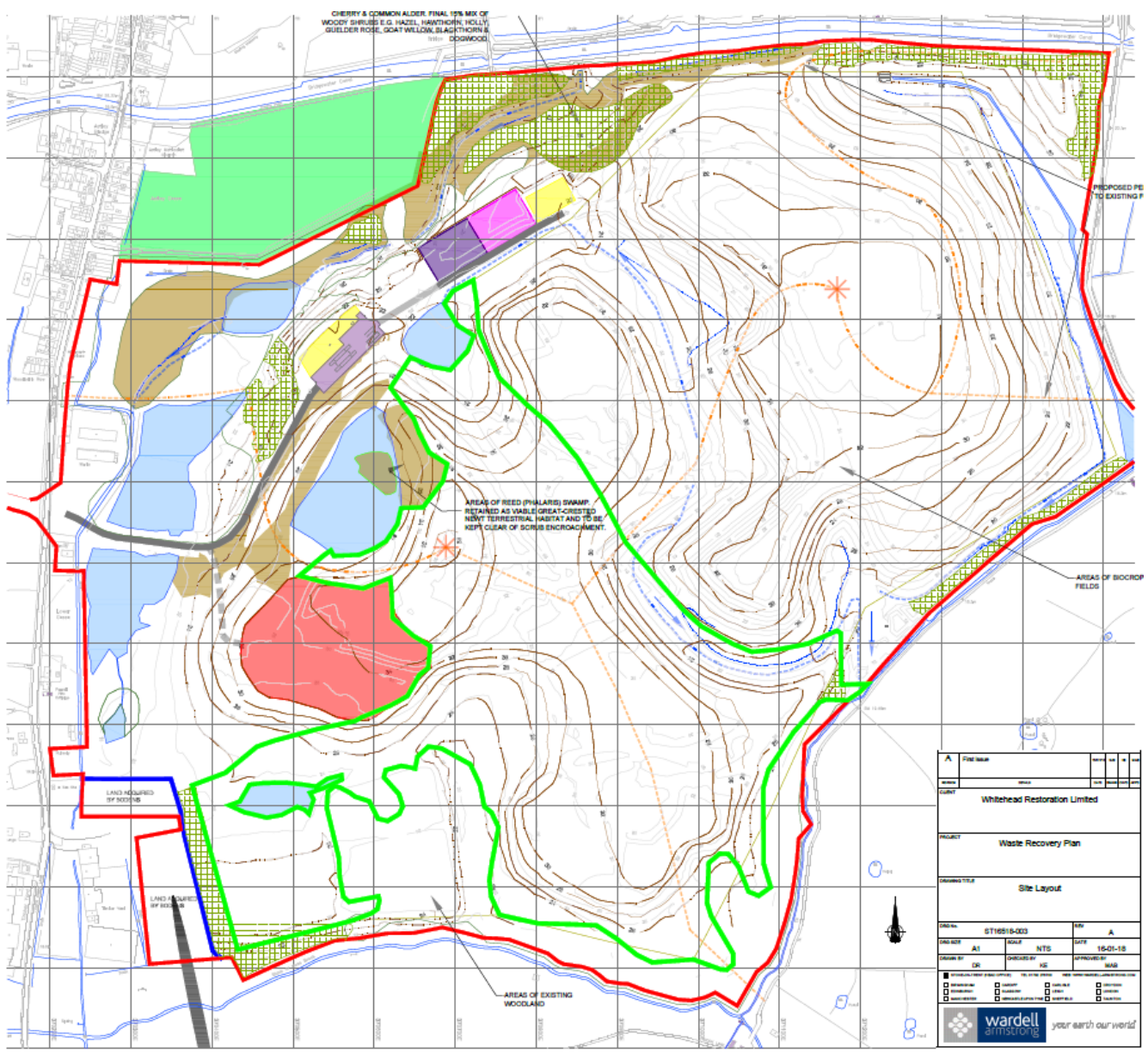
TGN EPR 8.01 ‘How to comply with your landspreading permit’ provides further guidance on the meaning of soil substitutes.

‘Waste code’ means the six digit code referable to a type of waste in accordance with the ‘List of Wastes’ and in relation to hazardous waste, includes the asterisk.

‘Waste Framework Directive’ or ‘WFD’ means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

‘year’ means calendar year ending 31 December.

Schedule 7 – Site plans



Appendix 1 - Reporting Forms

Form: Surface water 1

Permit Number: **EPR/GB3409HV** **Operator:** **Whitehead Restoration Limited**

Facility: **Former Astley Green Colliery Site** **Form Number:** **Surface water / DD/MM/YY**

Reporting of groundwater monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]

1. The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
2. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
3. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
4. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed

Date.....

(Authorised to sign as representative of Operator)