

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Horse Hill Developments Ltd Horse Hill Well Site Hookwood Horley Surrey RH6 0HN

Variation application number

EPR/BB3300XG/V004

Permit number

EPR/BB3300XG

Horse Hill Well Site Permit number EPR/BB3300XG

Introductory note

This introductory note does not form a part of the notice

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. Only the variations specified in schedule 1 are subject to a right of appeal.

The permit allowed the operator to manage extractive waste resulting from the boring of a single directional borehole, HH-1, and to carry out a flow test. Following the initial flow tests, the Operator now wishes to carry out an extended well test aimed at assessing the economic viability of developing an oil production facility at the site. This variation approves the revisions that have been made to the original waste management plan so as to allow the operator to carry out production tests. The permitted mining waste operation will allow for the following activities:

- Carrying out of extended well tests (EWTs) to appraise the technical and commercial viability of the hydrocarbon accumulations discovered.
- Work over of the existing HH-1 well.
- Drilling of a deviated side-track from the existing HH-1 borehole; this will be followed by carrying out of an EWT of up to 75 days;
- Drilling of a new appraisal well, Horse Hill-2 (HH-2), from the existing well pad; this will be followed by an EWT of up to 75 days;
- Restoration of the site to agriculture and woodland on cessation of exploratory activities.

The permit also now allows the use of an enclosed ground flare to flare waste gas arising from the well during production tests. The amount of gas to be flared shall not exceed 10 tonnes per day.

The schedules specify the changes made to the permit.

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

Status log of the permit			
Description Date		Comments	
Application received EPR/BB3300XG/A001	Duly made 16/06/14	Application for mining waste permit.	
Additional information received	15/07/14	Addendum, updated Site Condition Report, Waste Management Plan, Environmental Method Statement.	
Permit determined EAWML 401199	04/08/14	Permit issued to Horse Hill Developments Ltd	
Application received EPR/BB3300XG/V004 (variation and consolidation)	28/04/15	Application withdrawn	
Application received EPR/BB3300XG/V004 (variation and consolidation)	Duly made 19/05/15	Application to vary permit EPR/BB3300XG	

Status log of the permit		
Description	Date	Comments
Additional information received	09/07/15	Response to Schedule 5 Notice: Updated Waste Management Plan - Document
Additional information received	18/08/15	Ref: HSE-HH1-PD-04 Rev A3 Response to Schedule 5 Notice Updated Waste Management Plan - Document Ref: HSE-HH1-PD-04 Rev A4
Additional information received	22/09/15	H1 Risk Assessment – Air Releases
Additional information received	22/09/15	HSES HAZID report – Document Ref: HSE-HH1-PD-06 Rev A2
Additional information received	16/10/15	Response to additional questions raised from Schedule 5 response dated 18/08/15
		Updated Waste Management Plan - Document Ref: HSE-HH1-PD-04 Rev A5
Additional information received	02/11/15	Response to additional questions raised from Schedule 5 Notice dated 18/08/15
		Updated Waste Management Plan - Document Ref: HSE-HH1-PD-04 Rev A5
Additional information received	19/11/15	Response to Schedule 5 Notice: Updated Waste Management Plan – Document Ref: HSE-HH1-PD-04 Rev A6
Additional information received	23/11/15	Email to confirm the location of the proposed vent stack
Additional information received	25/11/15	Updated Waste Management Plan – Document Ref: HSE-HH1-PD-04 Rev A6a
Variation determined EPR/BB3300XG	27/11/15	Varied and consolidated permit issued
Application received EPR/BB3300XG/V004 (variation and consolidation)	Duly made 14/12/2016	Application to vary permit EPR/BB3300XG
Additional information received	31/01/17	Response to Schedule 5 Notice
		Revised Non Technical Summary V6 HH-PR-Q02 Version 6
Additional information received	31/01/17	Response to Schedule 5 Notice Revised Site Condition Report HH-PR-Q04 Rev 5
Additional information received	30/01/17	Response to Schedule 5 Notice Environmental Method Statement HH-PR-Q08 Rev 5
Additional information received	31/01/17	Response to Schedule 5 Notice Safety data sheets on additives to be used
Additional information received	01/02/17	Response to Schedule 5 Notice Revised Waste Management Plan Rev 5 HH-PR-Q10 containing revised information on enclosed ground flare
Additional information received	01/02/17	Response to Schedule 5 Notice Addendum to the Flood Risk and Ground Water Risk Assessments HH-PR-Q16 Rev. 1

Status log of the permit			
Description	Date	Comments	
Additional information received	10/05/17	Response to additional questions raised from Schedule 5 Notice dated 23/01/17 Revised list of additives	
Additional information received	02/06/17	Response to additional questions raised from Schedule 5 Notice dated 23/01/17 Further information on cellar and composition of completion fluid	
Additional information received	13/06/17	Updated appendix 8 of Waste Management Plan	
Change of registered office address	04/07/17	Registered office address changed to The Broadgate Tower, 8 th Floor, 20 Primrose Street, London, England, EC2A 2EW	
Permit variation determined	31/08/17	Variation notice issued 31/08/17	

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

Permit number

EPR/BB3300XG

Issued to

Horse Hill Developments Ltd ("the operator")

whose registered office is

The Broadgate Tower 8th Floor 20 Primrose Street London England EC2A 2EW

company registration number 08808553

to operate a mining waste operation at

Horse Hill Well Site Hookwood Horley Surrey RH6 0HN

to the extent set out in the schedules.

The notice shall take effect from 31/08/17

Name	Date
Principal Permitting Team Leader	31/08/17
National Permitting Service	

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of the application made by the operator:

Condition 3.4.1.

Table S1.1 as referred in condition 2.1.1

Table S1.2 as referred in condition 2.3.1

Table S3.1 as referred in condition 3.4

Table S3.2 as referred in condition 3.4

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BB3300XG

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BB3300XG/V004 authorising,

Horse Hill Developments Ltd ("the operator"),

whose registered office is

The Broadgate Tower 8th Floor 20 Primrose Street London England EC2A 2EW

company registration number 08808553

to operate a mining waste operation at

Horse Hill Well Site Hookwood Horley Surrey RH6 0HN

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

Name	Date
Principal Permitting Team Leader	31/08/2017
National Permitting Service	

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 not start the closure of the mining waste facilities unless agreed in writing by the Environment Agency

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.

2.3 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.
- 2.3.3 The operator shall review the waste management plan every five years from the date of initial approval.

3 Emissions and monitoring

3.1 Emissions of substances not controlled by emission limits

- 3.1.1 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.
- 3.1.2 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.
- 3.1.3 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.

The operator shall take appropriate measures:

- (a) to prevent the input of hazardous substances to groundwater; and
- (b) where a non-hazardous pollutant is not controlled by an emission limit, limit the input of such non-hazardous pollutants to groundwater so as to ensure that such inputs do not cause pollution of groundwater

3.2 Odour

- 3.2.1 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.
- 3.2.2 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.

3.3 Noise and vibration

3.3.1 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.

3.3.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to 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.

3.4 Monitoring

- 3.4.1 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 to air specified in table S3.1;
 - (b) process monitoring specified in table S3.2
- 3.4.2 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.
- 3.4.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.4.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.4.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 table S3.1.
- 3.4.5 The operator shall carry out:
 - regular calibration, at an appropriate frequency, of systems and equipment provided for carrying out any monitoring and measurements necessary to determine compliance with these rules; and
 - (b) regular checking, at an appropriate frequency, that such systems and equipment are serviceable and correctly used

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; and
 - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 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 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.

4.3 Notifications

- 4.3.1 The Environment Agency shall be notified without delay following the detection of:
 - (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 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.
- 4.3.4 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.

- 4.3.5 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.

4.4 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 "without delay", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 act	Table S1.1 activities				
Activity reference	Description of activities for waste operations	Limits of activities			
A1 – Drilling of borehole and deviated side track and	A mining waste operation for the management of extractive waste from prospecting for mineral	Permitted waste types shall conform to the description in the approved waste management plan.			
work overs	resources, not involving a waste facility.	The activities shall be limited to the following extractive waste types – water based drilling muds, oil based drilling muds, drill cuttings and gas.			
		The activities shall be limited to those described in the approved Waste Management Plan Document referenced HH-PR-Q10 Rev 5 described in Table S1.2			
		Drilling additives shall be approved in writing by the Environment Agency prior to use.			
		The activities shall be limited to managing waste arising from the prospecting for oil and/or gas.			
		The storage of extractive waste is limited to temporary storage in secure containment as part of the collection and transportation of waste from the site.			
		There shall be no re-injection of produced waters			
A2 – Well Testing	A mining waste operation for the management of non-hazardous extractive liquid waste and gas, from prospecting for mineral resources not including a waste facility	The activities shall be limited to those described in the approved Waste Management Plan Document referenced HH-PR-Q10 Rev 5 described in Table S1.2			
	resulting from well testing operation	Flaring of waste gas using an enclosed ground flare described in Appendix 3 of Waste Management Plan described in Table S1.2. No more than 10 tonnes of gas shall be flared per day.			
		There shall be no re-injection of produced waters			
		Waste shall be stored for no more than three months in secure storage containers at site.			

Table S1.2 Operating techniques		
Description	Parts	Date Received
Approved Waste Management Plan	HH-PR-Q10 Rev 5 – core document dated 01/02/17	01/02/17
HH-PR-Q10 Rev 5	Appendix 1: Mud and Drill Cuttings Volumes, HH-1 Side-track dated 01/02/17	01/02/17
	Appendix 2: Mud and Drill Cuttings Volumes, HH-2 New Well dated 01/02/17	01/02/17
	Appendix 3: Enclosed Flare Information dated 01/02/17	01/02/17
	Appendix 4: Well Test Package dated 01/02/17	01/02/17
	Appendix 5: Environmental Risk Assessment dated 01/02/2017	01/02/17
	Appendix 6: H1 Risk Assessment dated 09/12/2016	01/02/17
	Appendix 7: Flood Risk Assessment referenced HHL-HYD-XX-RA-RP-G-5000_P5 dated 10 October 2016 Ground Water Risk Assessment, Document Number: HH-PR-Q16, Rev. 1 dated 25/11/2016	01/02/17
	Appendix 8: Safety Data Sheets dated 13/06/17	13/06/17
	Appendix 9: Transport Statement report referenced LS/16286/TS/2 dated 12 October 2016	01/02/17
	Appendix 10: Assessment of Environmental Noise and Vibration Report 3388.01 dated 11/10/2016	01/02/17
	Appendix 11: Lighting Impact Assessment report referenced BI&BPB5986R001F01 dated 12/10/2016	01/02/17
	Appendix 12: Site Diagram, EWT dated 01/02/17	01/02/17
	Appendix 13: Site Diagram, Drilling dated 01/02/17	01/02/17
Environmental Method Statement, Document Number: HH-PR-Q08, Rev. 5 and dated 30/01/17	All	01/02/17
Site Condition Report, Document Number: HH-PR-Q04 Rev. 5 and dated 31/01/17	Chapters 5 and 6	01/02/17
Addendum to the Flood Risk and Ground Water Risk Assessments, Document Number: HH-PR-Q16, Rev. 1 dated 01/02/17	All	01/02/17
Flare Operating Procedure PWWT-03-SOP-030 Rev 2.00	All	02/02/17
Response to Schedule 5 notice dated 23/01/17	Detail of proposed well cellar for HH-2 well with comments	02/06/17
Response to Schedule 5 notice dated 23/01/17	Revised list of additives for side track and borehole drilling	07/06/17

Schedule 2 – Waste types, raw materials and fuels

Non-extractive wastes are not accepted as part of the permitted activities and there are no restrictions on raw materials or fuels under this schedule.

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements					
Emission point and source	Parameter	Emission Limit (including unit)	Monitoring frequency	Monitoring standard or method	
Gas flare as shown on layout plan in Appendix 12 of Waste management plan described in Table	Oxides of nitrogen	150mg/m ³	Not less than on four occasions during the first 12 months of operations	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency	
S1.2			Annually, after the first 12 months of operation		
	Carbon monoxide	50mg/m ³	Not less than on four occasions during the first 12 months of operations	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency	
			Annually, after the first 12 months of operation		
	Total volatile organic compounds (VOCs)	10mg/m ³	Not less than on four occasions during the first 12 months of operations	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency	
			Annually, after the first 12 months of operation		

Table S3.2 – Process Monitoring Requirements				
Emission point reference or source or description of monitoring points	Parameter	Limit (including unit)	Monitoring frequency	Monitoring standard or method
Gas flare	Hydrogen sulphide concentration in flare gas feed	5.7 mg/Nm ³	Monthly	As per M2 or such other subsequent guidance as may be agreed in writing with the Environment Agency
Gas flare	Flare gas feed flow rate	10 tonnes per day	Continuous	As approved in writing with the Environment Agency
Gas flare	Flare combustion temperature	Minimum 800 °C	Continuous	As approved in writing with the Environment Agency

Schedule 4 - Reporting

Table S4.1 Reporting of monitoring data				
Parameter	Emission or monitoring point/reference	Reporting period	Period begins	
The following emissions to air parameters as required by condition 3.5.1 Oxides of nitrogen Carbon monoxide Total volatile organic compounds including methane	Gas flare as shown on layout plan in Appendix 12 of Waste management plan described in Table S1.2	Quarterly during the first 12 months of operation, annually thereafter	Date of permit variation	
Flare temperature Gas feed rate	Gas flare as shown on layout plan in Appendix 12 of Waste management plan described in Table S1.2	Quarterly during the first 12 months of operation, annually thereafter	Date of permit variation	
Hydrogen Sulphide	Description as indicated in Table S3.2	Monthly	Date of permit variation	

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			
	any malfunction, breakdown or failure of equipment or techniques, ince not controlled by an emission limit which has caused, is pollution		
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			
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

Date and time of monitoring

(b) Notification requirements for t	the breach of a li	mit	
To be notified within 24 hours of	detection unless	otherwise specified belo)W
Measures taken, or intended to be taken, to stop the emission			
Time periods for notification follo	wing detection of	of a breach of a limit	
Parameter			Notification period
(c) Notification requirements for t	the detection of a	any significant adverse e	nvironmental effect
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 submit		n as practicable)
Any more accurate information on the notification under Part A.	ne matters for		
Measures taken, or intended to be t a recurrence of the incident	aken, to prevent		
Measures taken, or intended to be t limit or prevent any pollution of the of which has been or may be caused by	environment		
The dates of any unauthorised emis facility in the preceding 24 months.	ssions from the		
Name*			
Post			
Signature			
Date			

^{*} authorised to sign on behalf of the operator

Schedule 6 – Interpretation

"accident" means an accident that may result in pollution.

"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.

"approved waste management plan" means a plan of the type described in Article 5(1) of Directive 2006/21/EC of the European Parliament and of the Council of 15 March 2006 on the management of waste from extractive industries and amending Directive 2004/35/EC, approved as part of the grant or variation of an environmental permit and as revised from time to time.

"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.

"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 limit.

"extractive waste" means waste resulting from the prospecting, extraction, treatment and storage of mineral resources and the working of quarries, excluding waste which does not directly result from these operations.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

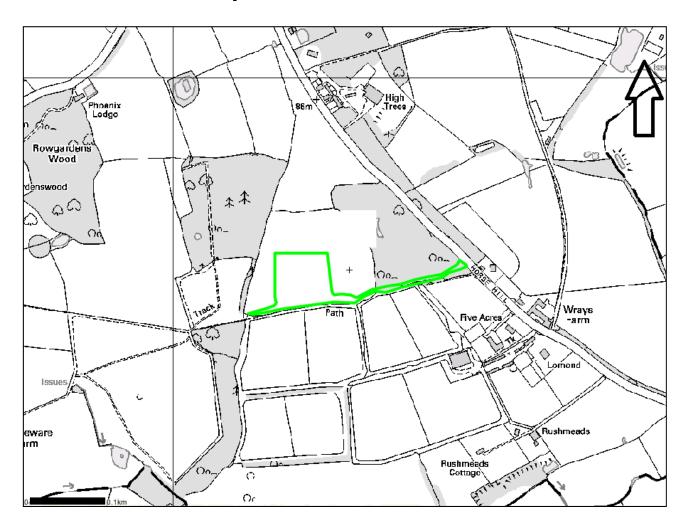
"groundwater" means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

"mining waste facility" means a waste facility as defined in Article 3(15) of Directive 2006/21/EC of the European Parliament and of the Council of 15 March 2006 on the management of waste from extractive industries and amending Directive 2004/35/EC, where a mining waste operation is carried out.

"prospecting" means prospecting as defined by article 3(21) of the Mining Waste Directive as 'the search for mineral deposits of economic value, including sampling, bulk sampling, drilling and trenching, but excluding any works required for the development of such deposits, and any activities directly associated with an existing extractive operation'.

"year" means calendar year ending 31 December.

Schedule 7 – Site plan



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END OF PERMIT

Permit Number:	EPR/BB3300XG	Operator:	Horse Hill Developments Ltd	
Facility:	Horse Hill Well Site	Form Number:	Air1 / 31/08/2017	

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
A1	Oxides of nitrogen	150mg/m					
A1	Hydrogen sulphide concentration in flare gas feed	5.7 mg/Nm ³					
A1	Carbon monoxide	50mg/m ³					
A1	Total volatile organic compounds (VOCs)	-					
A1	Methane concentration in flare gas feed	-					
A1	Flare gas feed flow rate	10 tonnes					
A1	Flare combustion temperature	Minimum 800 □C					

- 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	