

# Notice of variation with introductory note

## The Environmental Permitting (England & Wales) Regulations 2016

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Singleton Birch Limited

Melton Ross Quarry  
Barnetby  
North Lincolnshire  
DN38 6AE

**Variation application number**

EPR/DP3195NA/V009

**Permit number**

EPR/DP3195NA

# Melton Ross Quarry

## Permit number EPR/DP3195NA

### Introductory note

#### This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

The variation is to update the closure plan to reflect monitoring and management at the site, due to the development of the proposed Melton Ross Eco-Park on top of the closed landfill. This involves the alteration of trigger limits for landfill gas, groundwater and leachate quality. These changes have been presented in the new accepted format for an environmental permit.

The schedules specify the changes made to the original 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
Waste Management License Issued	02/09/81	
Modification	12/03/92	
Modification	17/03/97	Overwritten by future variations
Modification	25/03/97	As of V009, the only applicable conditions are 1, 7, 12, and 17 (All other conditions have been deleted or amended in future variations)
Modification	31/03/98	Changes overwritten by future variations
Modification	21/02/00	Changes overwritten by future variations
Modification	17/08/09	Variation to introduce closure requirements of the Landfill Directive.
Variation determined EPR/DP3195NA/V008	16/06/14	Agency initiated variation to incorporate the closure report (overwritten in V009 variation)
Variation Application EPR/DP3195NA/V009	Duly made 21/12/18	Operator initiated variation to incorporate the revised closure report
Additional information received	23/04/19	Confirmation of Nickel and TPH Groundwater Compliance Limits.
Variation determined EPR/DP3195NA/V009	10/05/19	Varied permit issued.

End of introductory note

# Notice of variation

## 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/DP3195NA**

### Issued to

**Singleton Birch Limited** ("the operator")

whose registered office is

**Singleton Birch Limited,  
Melton Ross Quarries,  
Barnetby,  
North Lincolnshire,  
United Kingdom,  
DN38 6AE**

company registration number 00009433

to operate a regulated facility at

**Melton Ross Quarry  
Barnetby  
North Lincolnshire  
DN38 6AE**

to the extent set out in the schedules.

The notice shall take effect from 10/05/2019

Name	Date
Dominiqua Drakeford-Allen	10/05/2019

Authorised on behalf of the Environment Agency

## Schedule 1 – conditions to be deleted

The following conditions are deleted as a result of the application made by the operator

- 44.2 Within 6 months of the date of issue of this variation the operator shall provide the Agency with:
- A Landfill gas risk assessment;
  - A report to demonstrate that appropriate infrastructure and procedures are in place to manage and monitor landfill gas and groundwater, including plans to identify monitoring infrastructure.
  - A report to demonstrate that infrastructure will be inspected and maintained.
- 44.3 Once agreed in writing by the Agency the report shall be incorporated into the closure plan.

## Schedule 2 – conditions to be amended

The following conditions are added as a result of the application made by the operator

- 44.1 (a) 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 the closure report, dated December, 2018, reference number 416.00075.00101/003, unless otherwise agreed in writing by the Environment Agency.
- (b) 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 the closure report or otherwise required under this permit, and shall implement the approved revised plan in place of the original from the date of the approval, unless otherwise agreed in writing by the Environment Agency.

## 45 Waste Acceptance

- 45.1 No waste may be accepted for disposal at the site.

## 49 Monitoring

49.1 Unless otherwise agreed in writing by the Agency, monitoring as specified in the following tables shall be undertaken. Where specified, limits shall not be exceeded.

- a) Groundwater specified in Table A.1 and A.4;
- b) Landfill gas specified in Table A.2 and A.5;
- c) Leachate specified in Table A.3

<b>Table SA.1 Trigger Levels for emissions into groundwater and monitoring requirements</b>						
<b>Monitoring Point Reference</b>	<b>Parameter</b>	<b>Control Level (including unit)</b>	<b>Compliance Limit (including unit)</b>	<b>Reference Period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
IT2	Ammoniacal Nitrogen	0.5 mg/l	0.7 mg/l	Spot Sample	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill

Table SA.1 Trigger Levels for emissions into groundwater and monitoring requirements						
Monitoring Point Reference	Parameter	Control Level (including unit)	Compliance Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
	Mecoprop	0.0002 mg/l	0.0003 mg/l	Spot Sample	Annual	Leachate, Groundwater and Surface Water', <u>risk assessments for your environmental permit (<a href="http://www.gov.uk">www.gov.uk</a>)</u> or such other subsequent guidance as may be agreed in writing with the Environment Agency
	Sulphate	290 mg/l	330 mg/l	Spot Sample	Annual	
IT3	Ammoniacal Nitrogen	18 mg/l	20 mg/l	Spot Sample	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water', <u>risk assessments for your environmental permit (<a href="http://www.gov.uk">www.gov.uk</a>)</u> or such other subsequent guidance as may be agreed in writing with the Environment Agency
	Mecoprop	0.0002 mg/l	0.0003 mg/l	Spot Sample	Annual	
	Sulphate	360 mg/l	380 mg/l	Spot Sample	Annual	
IT6	Ammoniacal Nitrogen	0.5 mg/l	0.6 mg/l	Spot Sample	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water', <u>risk assessments for your environmental permit (<a href="http://www.gov.uk">www.gov.uk</a>)</u> or such other subsequent guidance as may be agreed in writing with the Environment Agency
	Mecoprop	0.00004 mg/l	0.0001 mg/l	Spot Sample	Annual	
	Sulphate	300 mg/l	350 mg/l	Spot Sample	Annual	

Table SA.2 Landfill gas – limits and monitoring requirements					
Monitoring point Reference	Parameter	Action Limit, detection and accuracy	Compliance Limit, detection limit and accuracy	Monitoring frequency	Monitoring standard or method

<b>Table SA.2 Landfill gas – limits and monitoring requirements</b>					
<b>Monitoring point Reference</b>	<b>Parameter</b>	<b>Action Limit, detection and accuracy</b>	<b>Compliance Limit, detection limit and accuracy</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
Perimeter Landfill Gas Monitoring Boreholes (TBC)	Methane	TBC	TBC	Monthly	As specified in Environment Agency Guidance LFTGN03 (September 2004), or such other subsequent guidance as may be agreed in writing with the Environment Agency. Record whether the ground is: waterlogged frozen snow covered

### **Schedule 3 – conditions to be added**

The following conditions are added as a result of the application made by the operator

#### **1 Improvement Programme**

- 53.1 The operator shall complete the improvements specified in Table A.6 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 53.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

<b>Table A.3 Leachate monitoring requirements</b>			
<b>Monitoring point reference</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard and method</b>
Leachate Wells IT4 and IT5	Leachate Level	Quarterly	As specified in Environment Agency Guidance LFTGN02 or such other subsequent guidance as may be agreed in writing with the Environment Agency. Or as otherwise agreed with the Agency as part of a leachate monitoring plan.

<b>Table A.3 Leachate monitoring requirements</b>			
<b>Monitoring point reference</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard and method</b>
Leachate Wells IT4 and IT5	pH, Electrical conductivity, ammoniacal nitrogen, chloride, total alkalinity, magnesium, potassium, zinc, copper, cadmium, nickel, iron, chromium, sulphate, calcium, manganese, sodium, TOC, TON, lead, mecoprop, benazolin, bentazone, chlopyralid, TPH	Annual	As specified in Environment Agency Guidance LFTGN02 or such other subsequent guidance as may be agreed in writing with the Environment Agency. Or as otherwise agreed with the Agency as part of a leachate monitoring plan.

<b>Table A.4 Groundwater – other monitoring requirements</b>			
<b>Monitoring Point Reference</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
Groundwater Monitoring Boreholes IT1, IT2, IT3, IT6	Water level, chloride, electrical conductivity, pH	Quarterly	As specified in Environment Agency Guidance LFTGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water', <u>risk assessments for your environmental permit (<a href="http://www.gov.uk">www.gov.uk</a>)</u> or such other subsequent guidance as may be agreed in writing with the Environment Agency
	Total alkalinity, magnesium, potassium, cadmium, nickel, iron, calcium, manganese, sodium, lead, TPH	Annually	

<b>Table A.5 Landfill Gas – other monitoring requirements</b>			
<b>Monitoring Point Reference</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
Perimeter Landfill Gas Monitoring Boreholes	Carbon Dioxide Oxygen Carbon Monoxide Differential pressure Atmospheric pressure Ambient Temperature Gas Flow Rate Meteorological Conditions	Monthly	Calibrated handheld monitoring instrument

<b>Monitoring Point Reference</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
In waste gas monitoring boreholes	Methane Carbon Dioxide Oxygen Carbon Monoxide Differential pressure Atmospheric pressure Ambient Temperature Gas Flow Rate Meteorological Conditions	Monthly	Calibrated handheld monitoring instrument

<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
1	<p>Gas compliance limits are needed for the two external gas boreholes to be installed in the south east corner, as set out in section 7 of the Closure Report.</p> <p>Submit a written report to the Environment Agency for technical assessment and approval. The report shall include proposals for CH<sub>4</sub> action and compliance limits for two external gas monitoring boreholes to be installed in the south-east corner of the site (as shown in drawing CP4), in full accordance with Industry Guidance – ‘Perimeter Soil Gas Emissions Criteria and Associated Management’. Timescales are to be agreed as 12 months of data from when the boreholes are installed will be needed.</p>	To be agreed with Environment Agency, as 12 months of monitoring data (following borehole install) is required