

Environmental Protection Act 1990  
Section 37(1)(a)  
Licence No.34



ASiantaeth Yr  
Amgylchedd Cymru  
ENVIRONMENT  
AGENCY WALES

**NOTICE OF MODIFICATION TO WASTE MANAGEMENT LICENCE**

To: The Company Secretary  
Trehir Development Company Ltd  
No. 2 Bartholomews  
Ecovert House  
Brighton  
BN1 1HG

**WHEREAS** on 16th June 1988 you were granted a Disposal Licence (Number 34), now a Waste Management Licence, by the Rhymney Valley District Council relating to land at Trehir quarry, Pandy Road, Llanbradach, Near Caerphilly. Grid Reference (ST155 897)

And whereas on the 08<sup>th</sup> May 1998 and the 30<sup>th</sup> March 1999, the Environment Agency (The Agency) modified that licence subject to the conditions therein and in subsequent modifications.

**NOTICE** is **HEREBY GIVEN** that the Agency modifies the said conditions as follows:-

**The following Conditions attached to Waste Management Licence reference number 34 shall be deleted,**

Condition Numbers: 32.1, 32.2 and 47

**And the attached Conditions shall be substituted into Waste Management Licence reference number 34,**

New Conditions:

- 49 Duration of activities – groundwater protection
- 50 Leachate monitoring and reporting system
- 51 Groundwater monitoring and reporting system
- 52 Surface water monitoring and reporting system
- 53 Monitoring and reporting of meteorological conditions
- 54 Landfill gas monitoring and reporting external to the waste
- 55 Periodic reporting of environmental performance
- 56 Site returns

Such modification shall take effect on 02<sup>nd</sup> February 2001 at 24.00 hours.

Dated 2<sup>nd</sup> February 2001

Signed Nadia De Longhi  
Nadia De Longhi  
Team Leader Waste Licensing

Environment Agency Wales  
Abacus House  
St Mellons Business Park  
St Mellons  
Cardiff  
CF3 0EY

**NB-** The person served with this notice may appeal against the Agency's decision to the National Assembly for Wales within six months or such longer period as the National Assembly for Wales may allow.

**WML Number: 34**

**Modification Number: MOD03**

**Date of issue: 02/02/2001**

## **RIGHTS OF APPEAL**

Section 43(1) of the Environmental Protection Act 1990 provides that:

Where, except in pursuance of a direction given by the National Assembly for Wales

- (a) an application for a licence or a modification of the conditions to the licence is rejected;
- (b) a licence is granted subject to conditions;
- (c) the conditions of a licence are modified;

the applicant may appeal about the decision to the National Assembly for Wales

Therefore if you feel aggrieved by the decision or any of the conditions to the licence as granted you may obtain the appropriate form on which to give written notice of an appeal from:-

The Planning Inspectorate  
Crown Buildings  
Cathays Park  
CARDIFF  
CF10 3NQ

TEL 029 20 823859  
FAX 029 20 825150

This notice of appeal should be accompanied by the following information: a copy of the licence; a copy of any correspondence relevant to the appeal; a copy of any other document relevant to the appeal including, in particular, any relevant consent, determination, notice, planning permission, established use certificate or certificate of lawful use or development; and a statement indicating whether you wish the appeal to be in the form of a hearing or on the basis of written representations. You are also required to serve a copy of your notice of appeal, together with copies of any of the above documents that have accompanied your notice of appeal, on the Environment Agency (at the address overleaf.) You should appeal within 6 months of the date that this notice takes effect but the National Assembly for Wales may allow notice of appeal to be given after the expiry of this time period.

**49. Duration of activities - groundwater protection**

- 49.1 Subject to the terms of this condition, the activities of disposal, or tipping for the purpose of disposal, of waste which are authorised by this licence shall cease 12 months from date of this modification unless, by that date, the Licence holder has submitted to the Agency a written investigation and risk assessment, carried out in accordance with sub-condition 49.3, which shows that, at the specified date, the level of risk to groundwater meets the terms of Regulation 15 of the 1994 Regulations.
- 49.2 In the event that the continuation of activities is authorised in accordance with this condition, they shall cease on every fourth anniversary thereafter, unless, by each of those dates, the Licence Holder has submitted to the Agency a written review of the investigation and risk assessment which shows that at the specified dates the level of risk to groundwater meets the terms of Regulation 15 of the 1994 Regulations.

*Investigation and risk assessment under regulation 15*

- 49.3 The licence holder shall undertake an investigation to assess the actual and potential impact of discharges from the site in respect of Regulation 15 of the 1994 Regulations. The investigation shall include the following, or, in the case of a subsequent review, shall include a review of the following:-
- a) any relevant site investigation and monitoring data already available and interpretation of that data;
  - b) an examination of the hydrogeological conditions of the area in and around the site;
  - c) an examination of the possible purifying powers of the soil and subsoil;
  - d) an assessment of the risk of pollution and alteration of the quality of groundwater including the risk of harm to other aquatic systems and ecosystems and the likelihood of impeding exploitation of groundwater resources from any discharge, whether direct or indirect, of list I or list II substances.
- 49.4 The results of the investigation and of each subsequent review shall be submitted in a written report to the Agency. The report shall include the following, or in the case of subsequent reviews, reviews thereof:
- a) recommendations of the essential technical precautions which must be taken, paying particular attention to the nature and concentration of the substances present in the matter being disposed of or tipped, the characteristics of the receiving environment and the proximity of the water catchment areas, in particular those for drinking, thermal and mineral water;
  - b) recommendations of the technical precautions necessary:
    - i) In the case where groundwater is considered to be permanently unsuitable for other uses, to ensure that no substance in list I can reach other aquatic ecosystems or harm other ecosystems, to ensure that the presence of any list I substance once discharged into the groundwater will not impede exploitation of ground resources and to prevent pollution of groundwater by list II substances; and
    - ii) in the case where groundwater is not considered to be permanently unsuitable for other uses, to prevent any discharges into groundwater of substances in list I and to prevent any pollution of groundwater by substances in list II.

## 50. Leachate monitoring and reporting system

### *Provision of leachate monitoring and sampling programme*

50.1 From the date of issue of this modification, monitoring and sampling of leachate shall be undertaken and recorded for each of the leachate monitoring points in accordance with this condition and section 5.4 of the Working Plan, and in accordance with the standards specified in Table 50.2.A leachate monitoring and sampling programme

### *Leachate monitoring and sampling programme*

50.2 Monitoring and sampling of leachate shall be carried out and recorded in accordance with section 5.4 of the working plan and the standards specified in Table 50.2.A below.

**Table 50.2.A Standards for leachate monitoring and sampling programme**

Determinands	Monitoring frequencies	Units and accuracies	Trigger levels
X Leachate level in front face wells – critical level for stability being 14.5m	Twice weekly	Metres AOD	12.5 m below ground level (bg)
pH	Monthly		
Temperature	Monthly		
Electrical conductivity	Monthly		
Ammoniacal nitrogen	Monthly		
Chlorides	Monthly		
BOD	Monthly		
COD	Monthly		
Sulphates	Quarterly		
Total alkalinity (as CaCO <sub>3</sub> at pH 4.5)	Quarterly		
Total oxidised nitrogen	Quarterly		
Total organic carbon	Quarterly		
Na	Quarterly		
K	Quarterly		
Ca	Quarterly		
Mg	Quarterly		
Fe	Six-monthly		
Mn	Six-monthly		
Cd	Six-monthly		
Cr	Six-monthly		
Cu	Six-monthly		
Ni	Six-monthly		
Pb	Six-monthly		
Zn	Six-monthly		

Trigger levels for the leachate sampling programme shall be reviewed following completion of the Regulation 15 Assessment required under condition 49 of this Modification. These levels are to be agreed in writing with the Agency and will form part of the operational working plan.

### *Leachate monitoring and sampling records*

- 50.3 A record of the leachate monitoring and sampling results shall be made and submitted to the Agency in accordance with section 5.4 of the working plan and the standards specified in Table 50.3.B below.

**Table 50.3.B Standards for leachate monitoring and sampling records**

<b>Leachate Monitoring and Sampling Records</b>	<b>Specified Standards</b>
a) Quality assurance of monitoring and sampling	Monitoring shall be in accordance with section WP/5.4 which shall include details of: <ol style="list-style-type: none"> <li>a) Leachate monitoring and sampling quality assurance plan;</li> <li>b) Monitoring and sampling methodologies (including sample chain of custody/audit trail);</li> <li>c) Analytical methodologies and laboratory competence or accreditation including units and accuracies of measurement;</li> <li>d) Training and competence of monitoring/sampling personnel.</li> </ol>
b) Making of records	Details shall include the following: <ol style="list-style-type: none"> <li>a) Determinands monitored/sampled;</li> <li>b) Specified details of measurements/samples to support analytical and QA requirements; e.g. dates, times, locations, other relevant parameters;</li> <li>c) Results of measurements/sample analyses, with error limits;</li> <li>d) Interpretation and review of results against trigger levels;</li> <li>e) Validation of accuracy and validity of results, by designated quality assurer.</li> </ol>
c) Submission of records	A copy of the quality assured records of each monitoring and sampling result, with an interpretation of the results against background and trigger levels, shall be submitted to the Agency on a monthly basis, within 1 month of its being carried out, in the format specified below: <ol style="list-style-type: none"> <li>a) In an electronic format to be agreed; or</li> <li>b) In a format as detailed in the working plan.</li> </ol>

*\* Leachate management action plan*

- 50.4 A leachate management action plan shall be provided within 6 months of the date of issue of this Modification. The action plan shall specify actions to be taken in event that the trigger level for head of leachate is exceeded. The trigger level shall be reviewed as part of this action plan taking into account data obtained from site monitoring and additionally following completion of the Regulation 15 Assessment the level shall be reviewed and the working plan updated accordingly. The revised trigger levels are to be agreed in writing with the Agency.

In the event that any results exceed the trigger level specified in Tables 50.2.A ;

- a) The results shall be notified to the Agency immediately, and confirmed in writing immediately;
- b) The Leachate Management Action Plan shall be implemented immediately, and recorded in the site diary.

*Reference elevations for leachate level monitoring points*

- 50.5 On installation of each leachate level monitoring point the monitoring point shall be surveyed and its location provided to the Agency on an updated site plan clearly showing the level to Ordnance Datum.
- 50.6 If the elevation of the monitoring point is changed as a result of damage, alteration, extension or movement to a monitoring point, the monitoring point shall be resurveyed. Re-levelling shall take place before the next monitoring round. The Agency shall be notified in writing of the new levels.

**51. Groundwater monitoring and reporting systems**

*Provision of groundwater monitoring system*

- 51.1 From the date of issue of this modification groundwater monitoring systems shall be provided to enable monitoring of the groundwater outside the landfilling area in accordance with this condition and section 5.5 of the working plan and shown on plan/drawing referenced within that section.
- 51.2 The engineered external groundwater monitoring system provided for the site shall be:
- a) designed, constructed, completed, and shall be fully documented and recorded; and
  - b) inspected and maintained, and fully documented and recorded;
- in accordance with section 5.5 of the working plan and the standards specified in Table 51.2.A below.

**Table 51.2.A Standards for groundwater monitoring and sampling system**

<b>Groundwater monitoring systems</b>	<b>Specified standards</b>
a) Design of groundwater monitoring systems	The location, spacing and depth of boreholes shall be as specified in the approved design report.
b) Construction and installation of groundwater monitoring systems	Unless otherwise approved in writing by the Agency: a) the installations shall consist of boreholes of a minimum diameter of 100mm, containing a rigid HDPE casing of minimum internal diameter of 50mm; b) the annulus of the borehole shall be packed with non-calcareous pea gravel and completed at the surface with a gas tight seal; c) the borehole casing shall consist of manufactured slotted pipe within the response zone of the borehole and plain pipe through the gas tight seal; d) the borehole casing shall be completed at the surface with a removable lid, suitable for groundwater sampling, and these headworks shall be protected from damage with a lockable steel cover set in concrete; e) during construction of the boreholes a record shall be made of the subsurface geology encountered during drilling; and f) the geology shall be described by an appropriately qualified geotechnical engineer or similar person, who shall also provide a record of the 'as-built' dimensions of the monitoring installation.
c) Inspection and maintenance of groundwater monitoring systems	a) Monitoring installations shall be inspected for defects and damage during each routine monitoring exercise. b) Defects and damage shall be noted in the site diary, remedial measures shall be undertaken as soon as possible and in any case within 1 month. c) A record shall be kept in the site diary of all remedial actions undertaken.

*Groundwater monitoring and sampling programme*

51.3 Monitoring and sampling of groundwater external to the engineered containment shall be carried out and recorded in accordance with section 5.5 of the working plan and the standards specified in Table 51.3.B below.

**Table 51.3.B Standards for groundwater monitoring and sampling programme**

Determinands	Monitoring frequencies
Water level	Monthly
pH	Monthly
Temperature	Monthly
Electrical conductivity	Monthly
Dissolved oxygen	Monthly
Ammoniacal nitrogen	Monthly
Chlorides	Monthly
Sulphates	Quarterly
Total alkalinity (as CaCO <sub>3</sub> at pH 4.5)	Quarterly
Total oxidised nitrogen	Quarterly
Total organic carbon	Quarterly
Na	Quarterly
K	Quarterly
Ca	Quarterly
Mg	Quarterly
Fe	Quarterly
Mn	Quarterly
Cd	Quarterly
Cr	Quarterly
Cu	Quarterly
Ni	Quarterly
Pb	Quarterly
Zn	Quarterly

List 7 Screening Annually (From 07 Nov)

Trigger levels for the groundwater sampling programme shall be determined following completion of the Regulation 15 Assessment required under condition 49 of this Modification. These levels are to be agreed in writing with the Agency and will form part of the operational working plan.

#### *Groundwater monitoring and sampling records*

- 51.4 A record of the groundwater monitoring and sampling results shall be made and submitted to the Agency in accordance with section 5.5 of the working plan and the standards specified in Table 51.4.C below.

**Table 51.4.C Standards for groundwater monitoring and sampling records**

**Groundwater Monitoring and Sampling Records Specified Standards**

a) Quality assurance of monitoring and sampling	Monitoring shall be in accordance with section WP/5.5 which shall include details of: a) Groundwater monitoring and sampling quality assurance plan; b) Monitoring and sampling methodologies (including sample chain of custody/audit trail); c) Analytical methodologies and laboratory competence or accreditation including units and accuracies of measurement; d) Training and competence of monitoring/sampling personnel.
b) Making of records	Details shall include the following: a) Determinands monitored/sampled; b) Specified details of measurements/samples to support analytical and QA requirements; e.g. dates, times, locations, other relevant parameters; c) Results of measurements/sample analyses, with error limits; d) Interpretation and review of results against trigger levels; e) Validation of accuracy and validity of results, by designated quality assurer.
c) Submission of records	A copy of the quality assured records of each monitoring and sampling result, with an interpretation of the results against background and trigger levels, shall be submitted to the Agency on a monthly basis, within 1 month of its being carried out, in the format specified below: a) In an electronic format to be agreed; or b) In a format as detailed in the working plan.

*Reference elevations for groundwater level monitoring points*

51.5 On installation of each groundwater level monitoring point the monitoring point shall be surveyed and its location provided to the Agency on an updated site planning clearly showing the level to Ordnance Datum.

51.6 If the elevation of the monitoring point is changed as a result of damage, alteration, extension or movement to a monitoring point, the monitoring point shall be resurveyed. Re-levelling shall take place before the next monitoring round. The Agency shall be notified in writing of the new levels.

**52. Surface water quality monitoring and reporting systems**

*Provision of surface water monitoring system*

52.1 From the date of issue of this modification monitoring of surface water quality shall take place at locations that are physically marked and that are described in section 5.6 of the working plan and shown on plan/drawing referenced within that section, to ensure that periodic measurements of quality and level are taken at the same position.

*Surface water monitoring and sampling programme*

52.2 Monitoring and sampling of surface water in the vicinity of the site shall be carried out and recorded in accordance with section 5.5 of the working plan and the standards specified in Table 52.2.A below.

**Table 52.2.A Standards for surface water monitoring and sampling programme**

Determinands	Monitoring frequencies
pH	Monthly
Temperature	Monthly
Electrical conductivity	Monthly
Dissolved oxygen	Monthly
Ammoniacal nitrogen	Monthly
Chlorides	Monthly
Chemical oxygen demand	Monthly
Level of surface water	Monthly

(Replaced in 2007 Mod)

Trigger levels for the surface water sampling programme shall be determined following completion of the Regulation 15 Assessment required under condition 49 of this Modification. These levels are to be agreed in writing with the Agency and will form part of the operational working plan.

*Surface water Monitoring and sampling records*

52.3 A record of the surface water monitoring and sampling results shall be made and submitted to the Agency in accordance with section 5.6 of the working plan and the standards specified in Table 52.3.B below.

**Table 52.3.B Standards for surface water monitoring and sampling records**

<b>Surface water Monitoring and Sampling Records</b>	<b>Specified Standards</b>
a) Quality assurance of monitoring and sampling	Monitoring shall be in accordance with section WP/5.6 which shall include details of: <ul style="list-style-type: none"><li>a) Surface water monitoring and sampling quality assurance plan;</li><li>b) Monitoring and sampling methodologies (including sample chain of custody/audit trail);</li><li>c) Analytical methodologies and laboratory competence or accreditation including units and accuracies of measurement;</li><li>d) Training and competence of monitoring/sampling personnel.</li></ul>
b) Making of records	Details shall include the following: <ul style="list-style-type: none"><li>a) Determinands monitored/sampled;</li><li>b) Specified details of measurements/samples to support analytical and QA requirements; e.g. dates, times, locations, other relevant parameters;</li><li>c) Results of measurements/sample analyses, with error limits;</li><li>d) Interpretation and review of results against trigger levels;</li><li>e) Validation of accuracy and validity of results, by designated quality assurer.</li></ul>
c) Submission of records	A copy of the quality assured records of each monitoring and sampling result, with an interpretation of the results against background and trigger levels, shall be submitted to the Agency on a monthly basis, within 1 month of its being carried out, in the format specified below: <ul style="list-style-type: none"><li>a) In an electronic format to be agreed; or</li><li>b) In a format as detailed in the working plan.</li></ul>

### **53. Monitoring and reporting of meteorological conditions**

#### *Provision of meteorological conditions monitoring system*

53.1 From the date of issue of this modification meteorological monitoring shall be carried out in the vicinity of the site, in accordance with this condition and section 5.7 of the working plan and Table 53.1.A below.

**Table 53.1.A Standards for meteorological monitoring system**

Meteorological condition to be monitored	Location of monitoring point
Windspeed	Site Office
Wind direction	Site Office
Temperature	Site Office
Rainfall	Site Office
Atmospheric Pressure	Site Office

*Meteorological monitoring records*

53.2 A record of the meteorological conditions monitoring results shall be made in accordance with section 5.7 of the working plan and the standards specified in Table 53.2.B below.

**Table 53.2.B Standards for meteorological monitoring records**

Meteorological monitoring Records	Specified Standards
Making of records	A copy of the monitoring results shall be made available for inspection at any reasonable time on request in the format specified below: a) In an electronic format agreed in discussion with the Agency. b) In a format as detailed in the working plan.

**54. Landfill gas monitoring and reporting external to the waste**

*Provision of external landfill gas monitoring system*

54.1 An external landfill gas monitoring system shall be provided in accordance with this condition and section 5.3 of the working plan.

The objective of the external landfill gas monitoring system shall be to enable monitoring of the gases as in the ground outside the waste body, so as to determine whether landfill gas is migrating from the site.

*Design report on external landfill gas monitoring system*

54.2 Prior to the installation of any new boreholes for the external landfill gas monitoring system, the licence holder shall submit to the Agency a written report detailing the proposed landfill gas monitoring system, which shall include the information set out in Table 54.2.A. Following written approval by the Agency of the design report, it shall be incorporated into the working plan.

**Table 54.2.A Details to be included in report on external landfill gas monitoring system**

a) Landfill gas monitoring system infrastructure	Description, including design specification, scale drawings and location plans, for any landfill gas monitoring boreholes which are to be provided outside the waste body.
b) Operation of the system	Description of how the external landfill gas management monitoring system will be: a) operated; b) maintained in accordance with the manufacturers' or designers' recommendations/ specifications - this shall include a maintenance programme giving frequencies and subjects of inspection, with procedures, responsibilities, actions and deadlines for repair and replacement in the event of failed, defective or damaged components.

*Design and operational standards for external landfill gas monitoring system*

54.3 Any additional monitoring points for the engineered external landfill gas monitoring system provided shall be designed, constructed, inspected, maintained, documented and recorded to meet the standards specified in Table 54.3.B below.

Existing monitoring points are to be inspected and maintained in accordance with Table 54.3B(c) below.

**Table 54.3.B Standards for external landfill gas monitoring system**

a) Design of external landfill gas monitoring system	The location, spacing and depth of boreholes shall be as specified in the approved design report.
b) Construction and installation	Unless otherwise approved in writing by the Agency: a) the installations shall consist of boreholes of a minimum diameter of 150mm, containing a rigid HDPE casing of minimum internal diameter of 50mm; b) the annulus of the borehole shall be packed with non-calcareous pea gravel and completed at the surface with a gas tight seal; c) the borehole casing shall consist of manufactured slotted pipe within the response zone of the borehole and plain pipe through the gas tight seal; d) the borehole casing shall be completed at the surface with a removable gas tap, suitable for gas sampling, and these headworks shall be protected from damage with a lockable steel cover set in concrete; e) during construction of the boreholes a record shall be made of the subsurface geology encountered during drilling; and f) the geology shall be described by an appropriately qualified geotechnical engineer or similar person, who shall also provide a record of the 'as-built' dimensions of the monitoring installation.
c) Inspection and maintenance	a) Monitoring installations shall be inspected for defects and damage during each routine monitoring exercise. b) Defects and damage shall be noted in the site diary, remedial measures shall be undertaken as soon as possible and in any case within 1 month. c) A record shall be kept in the site diary of all remedial actions undertaken. d) A review of the system shall be carried out on an annual basis, to ensure that the system is continuing to meet its design and performance standards. The first review shall be carried out not more than one year following the date of its installation, and subsequent reviews shall be carried out not more than one year following the previous review. e) A written report of each review and its results shall be submitted in writing to the Agency within one calendar month of the review being completed.

*Construction quality assurance of external landfill gas monitoring systems*

54.4 Prior to construction of any fixed engineered components of the external landfill gas monitoring system, a Construction Quality Assurance Plan covering those elements of the external landfill gas monitoring system shall be submitted in writing to the Agency.

Prior to construction of the fixed engineered components of the external landfill gas

monitoring system, details of the identities, relevant qualifications of the personnel who will be providing Quality Assurance of the construction shall be submitted to the Environment Agency.

The fixed engineered components of the external landfill gas monitoring system shall be constructed and recorded in accordance with the Construction Quality Assurance Plan.

Changes to the Construction Quality Assurance Plan, quality assurance personnel, and detailed method statement shall not be implemented unless they have been notified in writing to the Environment Agency.

Within 1 calendar month following completion of the any fixed engineered components of the internal landfill gas monitoring system for each cell or phase, the Validation Report on the construction for that cell or phase shall be submitted in writing to the Environment Agency.

*External landfill gas monitoring and sampling programme*

- 54.5 Monitoring and sampling of landfill gas external to the waste body of each phase shall be carried out and recorded in accordance with the standards specified in Table 54.5.C below and section 5.3 of the working plan.

**Table 54.5.C Standards for external landfill gas monitoring and sampling programme**

<b>Landfill gas monitoring determinands</b>	<b>Monitoring frequencies</b>	<b>Units and accuracies</b>	<b>Trigger levels</b>
Methane	Monthly	% v/v and 0.1%	>1%
Carbon dioxide	Monthly, with methane monitoring	% v/v and 0.1%	>1.5 %
Oxygen	Monthly, with methane monitoring	% v/v and 0.1%	< 18%
Atmospheric pressure	Monthly, with methane monitoring	mbar and to1mbar	None
Differential pressure	Monthly, with methane monitoring	mbar and to1mbar	Not applicable.
Water level in borehole	Monthly, with methane monitoring	Metres AOD	Not applicable.

*Monitoring and sampling records*

- 54.6 A record of the external landfill gas monitoring and sampling results shall be made and submitted to the Agency in accordance with the standards specified in Table 54.6.D below and section 5.3 of the working plan.

**Table 54.6.D Standards for external landfill gas monitoring and sampling records**

a) Quality assurance of monitoring and sampling	a) Monitoring shall only be carried out by suitably competent / qualified staff. b) Monitoring equipment shall be calibrated and serviced in accordance with the manufacturers recommendations. c) A sample of gas shall be collected during routine monitoring from at least one monitoring point annually and subjected to laboratory analysis using gas chromatography to confirm the accuracy of field measurements.
b) Making of records	Records shall include the following: a) Determinands monitored/sampled; b) Specified details of measurements/samples to support analytical and QA requirements; including, dates, times, locations, personnel undertaking monitoring; c) Results of measurements/sample analyses, with error limits; d) Interpretation and review of results against trigger levels; e) Validation of accuracy and validity of results, by designated quality assurer.
c) Submission of records	A copy of the quality assured records of each monitoring and sampling result, with an interpretation of the results against background and trigger levels, shall be submitted to the Agency on a monthly basis, within 1 month of its being carried out, in the format specified below: a) In an electronic format to be agreed; or b) In a format as detailed in the working plan.

*Emissions monitoring action plan*

54.7 An emissions action plan shall be provided within 6 months of the issue of this Modification. The action plan shall specify actions to be taken in the event that trigger levels are exceeded, or analysis indicates trend against background that is likely to exceed trigger levels.

In the event that any results exceed the relevant trigger levels specified in table 54.5.D above:

- a) the results shall be notified to the Agency immediately; and
- b) the action plan shall be implemented immediately, and recorded in the site diary.

**55. Periodic reporting of environmental performance**

55.1 From the date of issue of this modification the Licence Holder shall provide the Agency on an annual basis or such other time as is agreed in writing with the Agency, a report on the environmental performance of the site, which shall include the following information:

- a) an analysis and review of the environmental monitoring results recorded for the site under these conditions, with an interpretation of the trend of the results against background levels and any agreed trigger levels;
- b) a review of the risk assessment for the site, taking account of the findings under a).

56.1 A record shall be kept of all wastes received and of all materials (wastes and recovered materials) removed from the site. The records shall include the following for each vehicle load of waste/material:

for waste received:

- a) origin of waste
- b) date received
- c) quantities in tonnes received and waste type
- d) nature of the waste (solid, liquid or sludge)

for waste/material removed:

- e) date removed
- f) quantities in tonnes removed and waste and/or material type
- g) destination of waste and/or materials removed
- h) nature of the waste and/or materials (solid, liquid or sludge)

56.2 A summary of the information, including nil returns, shall be submitted to the Agency, in the format specified by the Agency in Annex 1 which forms part of this condition. Summaries shall be for each quarter of the financial year and shall be submitted to the Agency within one month of the end of each quarter.