

Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Cory Environmental (Gloucestershire)
Ltd

Tir John Landfill Site
Wern Fawr Road
Off Fabian Way
Port Tennant
Swansea
SA7 8PA

Variation application number
EPR/VP3935AT/V002

Permit number
EPR/VP3935AT

Tir John Landfill Site

Permit number EPR/VP3935AT

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.

Several monitoring tables have been varied to amend minor errors and the condition relating to pre-settlement levels has been corrected following a substantial variation to the permit issued on 2nd September 2013.

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 |
| Application received TP3935LA/A001 (PAS Ref CP3635PQ) | 30/04/04 | Application for Non Hazardous Landfill |
| Permit refused | 17/01/05 | |
| Appeal lodged | 14/07/05 | |
| Permit Issued TP3935LA | 12/10/07 | Permit Issued to Swansea City Waste Disposal Limited |
| Variation Application TP3935LA/V002 (PAS Ref WP3433XR) | 25/10/07 | |
| Variation determined | 09/11/07 | |
| Variation Application (EPR/TP3935LA/V003) | 01/11/11 | Admin variation to add waste codes |
| Variation determined | 09/01/12 | |
| Application EPR/TP3935LA/V004 (variation and consolidation) | Duly made 22/06/12 | Application to vary to change the design of cells 16 and 17, amend leachate heads, update groundwater compliance limits and update the permit to modern conditions. |

| | | |
|--|---------------------------------------|---|
| Variation determined EPR/TP3935LA | 02/09/13 | Varied and consolidated permit issued in modern condition format. |
| Transfer Application EPR/LP3635EY/T001 | Duly Made 20/10/2013 | Transfer application with no change in management. |
| Transfer Determined Application EPR/VP3935AT/T001 (full transfer of permit EPR/LP3635EY) | 28/02/2014 Duly made 26/06/2015 | New permit number EPR/LP3635EY Application to transfer the permit in full to Cory Environmental (Gloucestershire) Ltd and incorporate minor variations regarding pre- settlement issues. |
| NRW initiated variation (EPR/VP3935AT/V002) | Received 26/06/2015 | NRW initiated variation to correct minor errors detected in the previous consolidation. |
| Transfer determined EPR/VP3935AT | 30/09/2015 | Full transfer of permit complete. |
| NRW initiated variation (EPR/VP3935AT/V002) | 30/09/2015 | Permit issued to Cory Environmental (Gloucestershire) Limited |

Other Part A installation permits relating to this installation

| Operator | Permit number | Date of issue |
|--------------------------|----------------------|----------------------|
| Infinis (Re-Gen) Limited | EPR/BP3738LS | 22/12/2006 |

End of introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2010

The Natural Resources Body for Wales ("Natural Resources Wales") in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies

Permit number
EPR/VP3935AT

issued to:
Cory Environmental (Gloucestershire) Limited ("the operator")

whose registered office is

2 Coldbath Square
London
EC1R 5HL

company registration number 02664840

to operate a regulated facility at

Tir John Landfill
Wern Terrace
Off Fabian Way
Swansea
SA7 9XT

to the extent set out in the schedules.

The notice shall take effect from 30/09/2015

Name

Date

| | |
|---|--------------------------|
|  | 30 September 2015 |
|---|--------------------------|

Eirian Macdonald
Authorised on behalf of Natural Resources Wales

Schedule 1 – conditions to be deleted

None

Schedule 2 – conditions to be amended

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

The following conditions are amended as detailed, as a result of the application made by the operator.

1.2 Finance

- 1.2.1 The financial provision for meeting the obligations under this permit set out in the agreement made between the City and County Council of Swansea and Natural Resources Wales dated 28/02/2014 shall be maintained by the City and County Council of Swansea throughout the subsistence of this permit and the operator shall produce evidence of such provision whenever required by Natural Resources Wales.

The following conditions are amended as detailed, following an NRW initiated variation

- 2.7.5 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing ESID/4b (Revision 1 (dated: 26/11/13)).

The following tables which are referenced in condition 3.1.1 have been amended as follows:

Table S3.1 is amended to:

| Table S3.1 Leachate level limits and monitoring requirements | | | |
|--|--|--|--|
| Monitoring point reference/ Description | Limit | Monitoring frequency | Monitoring method |
| LEW5A (Cell 5), LEW6 (Cell 6), LEW7(Cell 7), LEW8(Cell 8), LEW9A (Cell 9), LEW10A (Cell 10), LEW11A (Cell11), LEW12A (Cell12), LEW28 (Cell13), LEW29 (Cell14), LEW20(Cell 5), LEW 21(Cell 6), LEW22 (Cell 7), LEW23 (Cell 8), LEW 24 (Cell 9), LEW25(Cell 10), LEW26(Cell11), LEW27 (Cell 12), LEW28(Cell 13), LEW29 (Cell14), LEW30 (Cell14) as shown on drawing references: LP3635EY/2014/APR/C rev.0. | 1m above well base*. | Fortnightly for wells in uncapped cells and monthly for wells in fully capped cells. | In accordance with Environment Agency document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02), unless otherwise agreed in writing. |
| Any additional monitoring well/s subsequently installed | | | |
| LEW5 (Cell 5), LEW10 (Cell 10), LEW11 (Cell 11), LEW12 (Cell12), LEW28 (Cell 13), LEW29 (Cell14), LEW15 (Cell15), LEW31 (Cell15), LEW32 (Cell 15) as shown on drawing references: LP3635EY/2014/APR/C rev.0. | 1m above cell base unless otherwise agreed in writing. | | |
| New wells to be installed as part of Improvement Condition 19A (LEW6A, LEW7A, LEW8A, LEW9) as shown on drawing reference: B1160001/ TP3935LA/ EPVA/ESID/15. Rev.0. | | | |
| New wells to be installed as part of the construction of Cells 16 and 17 (LEW16, LMP16A, LMP16B, LEW17, LMP17A, LMP17B) as shown on drawing reference: B1160001/ TP3935LA/ EPVA/ESID/15. Rev.0. | | | |
| * As part of the annual monitoring report the operator shall submit a summary table providing the elevation in (mAOD) of the top of each well, the depth of the well and an elevation value (in mAOD) for each well base. The information shall be based on the previous year's annual well survey. The report should also highlight any structural changes to any of the well's that may affect level assessment (e.g. changes to well height). | | | |

Table S3.2 is amended to:

| Table S3.2 Point source emissions to water (other than sewer) – emission limits and monitoring requirements | | | | | | |
|---|--------------------------|---|----------|------------------|----------------------|--|
| Emission point Ref. & Location | Parameter | Source | Limit | Reference Period | Monitoring Frequency | Monitoring Standard or Method |
| SW1 as shown on Drawing Number B1160001/TP3935L A/EPVA/ESID/6d. Rev.1. | Flow | Discharge from the surface water lagoon | 40 l/s | 24hr average | Daily | In accordance with Environment Agency document ‘Guidance on monitoring of landfill leachate, groundwater and surface water’ (LFTGN02), unless otherwise agreed in writing. |
| | Suspended Solids | | 40 mg/l | Spot Sample | Monthly | |
| | Biological Oxygen Demand | | 20 mg/l | | | |
| | Ammoniacal Nitrogen | | 0.5 mg/l | | | |

Table S3.8 is amended to the following:

| Table S3.8 Leachate– other monitoring requirements | | | | |
|--|---------------------------|----------------------|-------------------------------|----------------------|
| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| LEW5, LEW6, LEW22, LEW23, LEW9A, LEW25, LEW26, LEW12A, LEW28, LEW29, LEW31, LEW16, LEW17 as shown on drawing references: LP3635EY/2014/APR/C rev.0. and IPDS-1, IPDS-2, IPDS-3 (locations to be agreed with NRW) | BOD | Six | Spot | |
| | COD | Monthly | Sample | |
| | Conductivity | | | |
| | DO | | | |
| | pH | | | |
| | Temperature | | | |
| | Sodium, | | | |
| | Ammoniacal Nitrogen as N, | | | |
| | Cadmium (dissolved), | | | |
| | Chloride, | | | |
| | Mecoprop, | | | |
| | Reactive Phosphorus, | | | |
| | Zinc (dissolved), | | | |
| | Benzo(a) pyrene, | | | |
| | Atrazine, | | | |
| | Cis-1,2-dichloroethene, | | | |
| | Dichloroprop | | | |
| | Tributyl Phosphate, | | | |
| | 1,2,4-trimethylbenzene, | | | |

Table S3.8 Leachate– other monitoring requirements

| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
|---|----------------------------|-------------------------|-------------------------------------|-------------------------|
| | Lead, | | | |
| | Phenol (Monohydric), | | | |
| | 1,2-dichloroethane, | Annually | Spot | |
| | 2,3,6-trichlorophenol, | | Sample | |
| | 2,4,5- trichlorophenol, | | | |
| | 2,4,6- trichlorophenol, | | | |
| | Arsenic, | | | |
| | Benzene, | | | |
| | Benzo(b)fluoranthene, | | | |
| | Benzo(ghi)perylene | | | |
| | Benzo(k)fluoranthene | | | |
| | Boron | | | |
| | Chlorobenzene, | | | |
| | Chloromethane | | | |
| | Chromium | | | |
| | Copper | | | |
| | Dichloromethane | | | |
| | Ethyl benzene | | | |
| | Fluoride | | | |
| | Indeno(1,2,3cd) pyrene, | | | |
| | m,p-xylene | | | |
| | Mercury | | | |
| | Molybdenum | | | |
| | Naphthalene | | | |
| | Nickel | | | |
| | Nitrate | | | |
| | o-xylene | | | |
| | Pentachlorophenol | | | |
| | p-isopropyltoluene | | | |
| | Potassium | | | |
| | Selenium | | | |
| | Toluene | | | |
| | Tributyltin | | | |
| | Vanadium | | | |
| | Depth to base of each well | | | |

Table S3.9 is amended to:

| Table S3.9 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 |
| SW1, SW2, SW3, SW4 as shown on Drawing Number B1160001/TP3935LA/EPV A/ESID/6d. Rev.0. | Visual Inspection for evidence of Contamination | Weekly | Unless otherwise agreed in writing, monitoring methods used shall be in accordance with Environment Agency document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02). | See the Approved Surface Water Management Plan (dated 14 th November 2008 for applicable Control Levels. |
| | Temperature | Monthly | | |
| | pH | | | |
| | Dissolved Oxygen | | | |
| | Ammoniacal Nitrogen | | | |
| | Chloride | | | |
| | Chemical Oxygen Demand | | | |
| | Biological Oxygen Demand | | | |
| | Total Organic Carbon | | | |
| | Total Phosphate | | | |
| | Nitrate | | | |
| | Nitrite | | | |
| | Organic Nitrogen as N Total | | | |
| | Oxidised Nitrogen as N | | | |
| | DAIN* | | | |
| | DAIP** | | | |
| | Suspended Solids | | | |
| | Zinc | Annually | | |
| | Lead | | | |
| | Nickel | | | |
| | Copper | | | |
| | Chromium | | | |
| | Cadmium | | | |
| | Manganese | | | |
| | Iron | | | |
| | Sulphate | | | |
| | Alkalinity | | | |
| | Potassium | | | |
| | Sodium | | | |

Schedule 3 – conditions to be added

None