

TT2 TYNE TUNNELS



www.tt2.co.uk



**A Public Environmental Statement for the
Financial Year April 2008—March 2009**
An Environmental Statement produced for the Eco-Management & Audit Scheme
(EMAS)

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Verifier's Statement

"Further to consideration of the documentation, data and information resulting from the organisation's internal procedures examined during the verification process, it is evident that the environment policy, program, management system, review (or audit procedure) and environmental statement meet the requirements of Regulation 761/01 (The EMAS Regulations)."

Graham Walford Verifier

Date: 29.5.09

SGS United Kingdom Ltd

UK—V—0007

Tunnels Manager's Statement

Welcome to our sixth EMAS Statement, this is our third full statement for the financial year 2008-09, it gives an explanation of EMAS and provides an update on our environmental performance for the last year. Our latest statement is available on our website and our previous statements are available upon request.

2008 proved to be a very busy and challenging year for us. Construction work on our New Tyne Crossing is progressing and this is providing us with challenges to ensure we continue to provide an efficient and effective service to our customers.

Information regarding construction is available on our website and via our regular update newsletters.

<http://www.tt2.co.uk>

Our environmental performance has continued to improve since our first certification to ISO 14001 in April 2004 and first registration to EMAS in May 2004. As with the last five years, every fact and figure in this statement has been approved by an accredited EMAS verifier. Please take some time to read our statement and see for yourself how we at the Tyne Tunnels are performing.

Our full management programme, detailing all of our objectives for 2008/09, is available upon request.

Should you wish to talk to me or anyone at the Tyne Tunnels about our environmental issues, please do not hesitate to use the contact details on pages 21 and 22



A handwritten signature in blue ink that reads "P. Hedley". The signature is written in a cursive style and is positioned to the left of the printed name.

Peter Hedley
Tunnels Manager





Managing Directors comment;

The last 14 months have presented all of us who work at TT2 with new challenges. Construction work on the New Tyne Crossing is progressing rapidly and each week sees changes on the construction site. This does have an effect on the traffic management at the approaches to the existing vehicle tunnel and plaza, but I am pleased with the way in which we have managed to maintain or improve the journey times and how the majority of our customers are accepting these inconveniences. Our environmental performance continues to improve, we are continuing to strengthen our partnerships with North and South Tyneside Councils and are, wherever possible, sourcing local workers and companies to provide products, materials and services for our operations and the construction works.

TT2 Managing Director



Our Environmental Policy, shown opposite, is reviewed at Management Review Meetings. This review ensures us that our policy is adequate, effective and meets the requirements of our EMS.


TT2 (Tyne Tunnels 2)
ENVIRONMENTAL POLICY

Statement of Intent

TT2 provide a direct service within the Strategic Transport Network for the Tyne & Wear Conurbation – for Vehicular, Pedestrian and Cyclist passage under the River Tyne. This policy is appropriate to the nature, scale and environmental impacts of our activities. We are committed to the delivery of a transparent 'Best Value' service as an active participant within Tyne & Wear and as a good neighbour to the local communities of North and South Tyne whilst managing the environment effectively and sustainably. We are committed to continual improvement and the development of Procurement Policies and procedures to obtain best value for TT2 and our Environmental Profile. Our aims is to reduce the negative environmental impact of our activities and to achieve this we have implemented an Environmental Management System (EMS). This will help us to continually improve our environmental performance by implementing control measures to prevent pollution and to ensure compliance with all relevant environmental legislation.

Key Aims

ENERGY
Minimise our contribution to climate change by reducing electricity consumption through energy conservation and by increasing renewable energy use.

TRANSPORT
To manage operations in a way that controls journey times and traffic patterns in the most effective way thus creating the most efficient use of infrastructure to address the environmental impact of vehicular use.

WASTE
Reduce the amount of waste produced, increase the amount recycled and minimise the amount of waste disposed of to landfill.

BIODIVERSITY & THE NATURAL ENVIRONMENT
Protect and enhance the biodiversity of the natural landscape surrounding the tunnel portals.

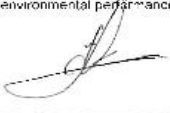
EDUCATION & AWARENESS
To use our influence within the Education Business Partnership and Community Liaison to promote Environmental Issues and Good Neighbourliness.

CONTRACTORS & SUPPLIERS
Work with contractors and suppliers to improve the environmental impact of their products and services.

ENVIRONMENTAL MANAGEMENT SYSTEMS
Continue to operate an Environmental Management System certificated to ISO 14001 and registered to the Eco-Management & Audit Scheme (EMAS).

Implementation

TT2 (Tyne Tunnels 2) will comply with this environmental policy and the key aims it contains ensure that the policy is communicated to all employees and make it available to all interested parties. As part of our registration to EMAS we will also publish an annual account of our environmental performance.

Signature: 
1st Feb 2008

Trevor Jackson
TT2 Managing Director

DESCRIPTION OF THE ORGANISATION

The Tyne Tunnels.
Background Information.

The Tyne Tunnels consist of three tunnels which run under the River Tyne, connecting the communities of North and South Tyneside. These 3 tunnels consist of a vehicle tunnel, a pedestrian and cycle tunnel.

The vehicle tunnels' purpose is to provide a crossing of the River Tyne on the A19 strategic corridor which directly serves Tyneside, Wearside and the Tees Valley.

Work on the New Tyne Crossing (NTC) began in 2008 , this crossing will be a submerged tube tunnel which will run alongside the existing tunnel under the river. The new tunnel is due for completion in late 2010. The existing vehicle tunnel will be closed and refurbished and this is expected to take approximately 10 months. By late 2011, early 2012 both vehicles tunnels will be open and passing vehicles across the river.

The existing administration building is to be refurbished and the control room, which is integral to the tunnels operations, will be upgraded to accommodate the latest technology.

Out teams of multi-skilled staff will be trained to the highest possible levels to be able to deal with any type of incident or accident which may occur and will be able to deal with any maintenance problem.

We continue to keep a watching brief on the design and construction of the NTC, our Technical Manager and SQE Manager visit the construction site frequently to ensure that construction is carried out giving due consideration to the environment.

Bouygues TP UK, our construction contractor, are certificated to ISO 14001 and follow environmental plans to ensure they also give due consideration to the environment and do not break the law.

We have a Liaison Team who regularly meet with groups from both north and south of the river. Any concerns are raised with the liaison team who report back to TT2s' Managing Director for action and resolution.



T2 Liaison Team
(left to right, Paul Moore, Tamsin Greulich and James Judson)

DESCRIPTION OF EMS

What is EMAS?

EMAS, the Eco-management and Audit Scheme, is a voluntary scheme which is designed to recognise and reward proactive organisations that go beyond what environmental laws expect of them and that are constantly improving the way they interact with the environment.

EMAS incorporates ISO 14001 (an international standard which enables organisations to identify and minimise the impacts of their operations on the environment and helps to promote continual improvement of environmental performance) as its Environmental Management System (EMS). This EMS allows us to manage our environmental risks and reduce our environmental impacts.

A key feature of EMAS is communicating environmental information; this is done by producing an environmental statement, which reports on environmental performance and making it publicly available. It is a transparent, robust, credible way of showing others our environmental improvement.

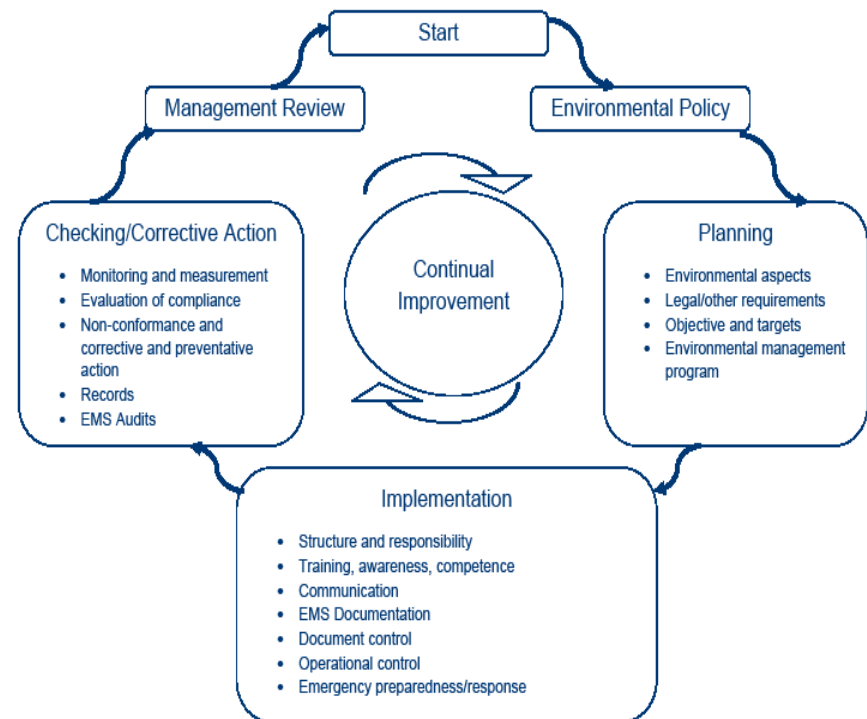
TT2 EMS Requirements

The EMS has been written in accordance with ISO 14001 (see diagram) and by progressing this to EMAS, TT2 management strive to involve all personnel in their vision of continual environmental performance improvement.

Environmental Planning & Policy

In order to achieve the aims of our policy, a thorough environmental review was carried out when we first introduced our EMS. Our aspects and impacts are reviewed on an annual basis and improvement objectives are decided upon once this review has taken place.

Our legal obligations are important and we aim to be in compliance with applicable acts and regulations. We have a register of legislation and this is reviewed regularly.



Description of TT2s' ISO 14001 EMS

DESCRIPTION OF EMS *continued*

EMAS Responsibilities

TT2s' Managing Director accepts overall responsibility for the policies and strategies of the Tyne Tunnels. He is assisted by a team of senior managers consisting of the Tunnels Manager and the Chief Financial Officer.

The Safety, Quality and Environmental (SQE) Manager accepts overall responsibility for the EMS and the Integrated Management System (IMS) representatives are responsible for the administration of the EMS.

Implementation

The SQE Manager and the IMS representatives address the environmental impacts that have been identified. Control procedures and training requirements are identified by the SQE Manager and the IMS representatives.

Checking /Corrective Action

The environmental impacts that have been identified within the EMS are regularly monitored—this has enabled the data that follows to be retrieved from the EMS. To ensure compliance with applicable pieces of legislation TT2 carry out evaluations of legal compliance. This ensures TT2 remain within the law.

To ensure our monitoring is effective our EMS is subject to audit. A programme of audits checks that the EMS complies with the standard, that it is effective and that there is legislative compliance.

The findings of these audits are reported to the SQE Manager, who takes appropriate action where required

Management System Review

TT2 management conduct regular management and team meetings, these offer the opportunity of raising environmental issues. The outcome of these meetings, when required are then acted upon or if they are wider issues are raised through the formal management review process.

Management review meetings are held every 6 months and provide a health check of the entire EMS. Senior managers and IMS representatives attend these reviews and discuss environmental improvements and the adequacy of the EMS. The results of these meetings are fed back into the planning stage which completes the cycle of continual performance improvement.

This is the third full EMAS environmental statement and the data that follows has been verified.

ENVIRONMENTAL ASPECTS

A description of TT2s' environmental aspects

The environmental aspects of TT2 have been identified and assessed for significance. The methodology behind the review consisted of an initial assessment of impacts, followed by a more detailed assessment of significance which took into account; environmental legislation, relevance to the local community and past accidents or incidents. Copies of the methodology and assessment documents are available on request.

As a result of the initial in-depth review the following aspects, which are either 'direct' or 'indirect' have been identified.

Direct aspects are environmental aspects which TT2 have direct management control over.

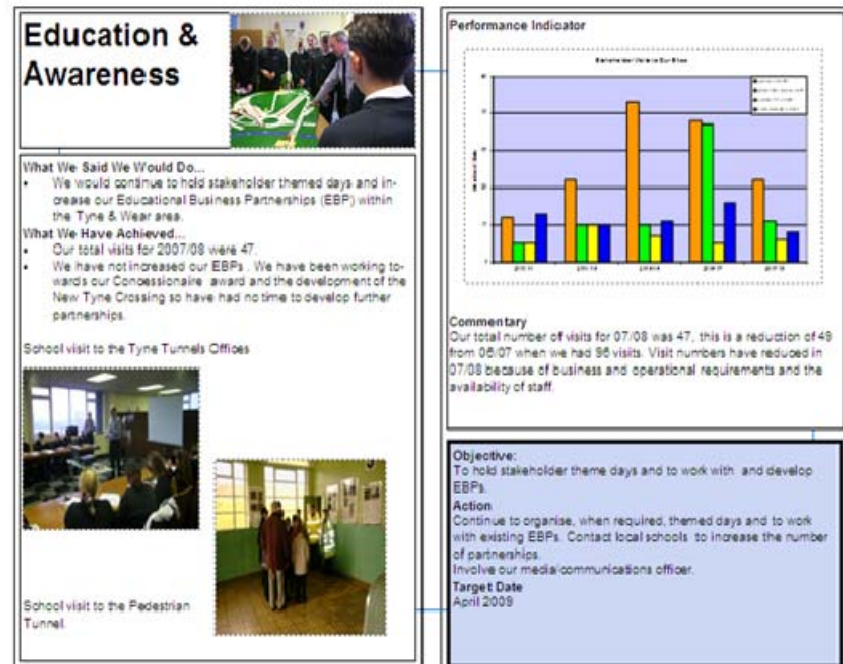
Indirect aspects are environmental aspects which TT2 have no direct management control over as they result from activities, products and services supplied by a third party. Direct aspects can be controlled by internal management decisions, whereas indirect aspects require influence being put upon contractors, suppliers and customers to gain environmental benefits.

- Waste (direct)
- Electricity & Water (direct)
- Transport (direct & indirect)
- Natural Environment & Biodiversity (direct)
- Purchasing (indirect)
- Air Quality (direct & indirect)
- Education & Awareness (direct & indirect)

The following pages set out each of the aspects mentioned in an easy to read format. They contain:

- A background to the environmental aspect.
- The environmental impact,
- What TT2 is currently doing to tackle the impact,
- What has been achieved, with the Performance Indicator or Case Study and
- Objectives for future improvements.

Example of our easy to read format from our 2007/08 statement



Waste



Whilst we did not have a specific objective for waste, we continued to segregate, reduce and recycle our waste whenever possible.

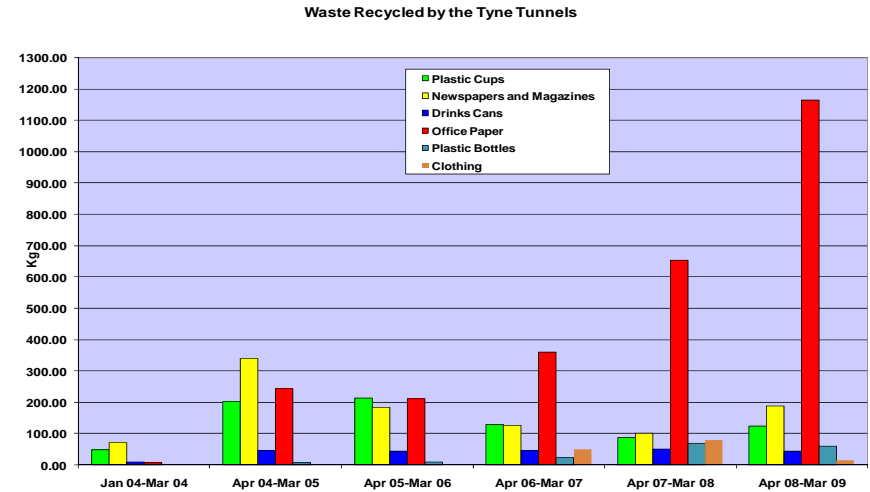
In the past we have taken office paper, plastic bottles, drinks cans and plastic vending cups to one of Newcastle City Council's depots. In an attempt to reduce our transport impact on the environment we decided to look for a local company to deal with our recyclate.

Global Recycling are a company who are based on the Tyne Tunnel Trading Estate and they agreed to accept all of our recyclable waste. They provide us with the appropriate paperwork so we remain within the law. Global Recycling also collect our waste cardboard for recycling. We have no weights for collected cardboard as we are included in a collection route, therefore our cardboard is mixed with other collections.



Reg Potts, Depot Manager,
Global Recycling

Performance Indicator



Commentary

Recycling of plastic cups has increased from approx 87 kgs to 124kgs during 08/09, an increase of approx 37kg.

Our newspapers/magazines are now recycled by Global Recycling and we recycled 186kg during 08/09.

Recycling of drinks cans remains steady.

Recycling of office paper has increased significantly, this is due to the introduction of Docuware—a document management system which is helping us move towards a paperless office.

Recycling of plastic bottles decreased from approx 69 kgs to 59 kgs during 08/09, a decrease of approx 9kgs.

Recycling of clothing decreased from approx 80 kgs to approx 15 kgs during 08/09, a decrease of 65kgs.

Our waste oil increased from approx 130 gallons to 360 gallons during 08/09, an increase of 230 gallons.

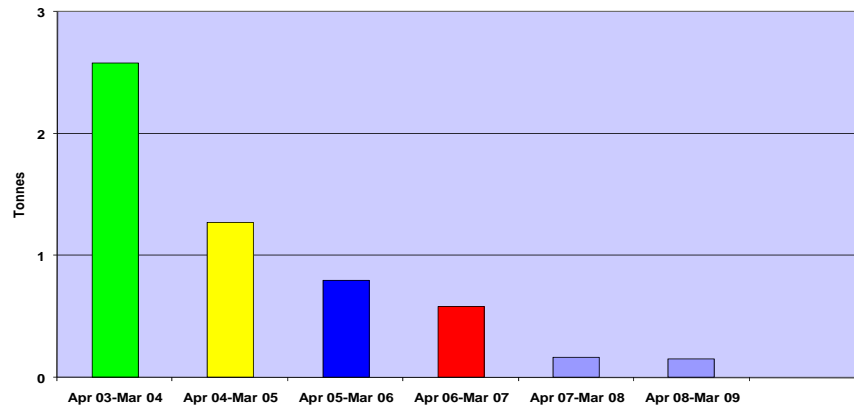
During 07/08 approx 162kgs of lighting tubes were recycled, during 08/09 approx 151kgs of lighting tubes were recycled. A decrease of approx 11kgs.

We did not send any printer toners/cartridges for recycling during 08/09.

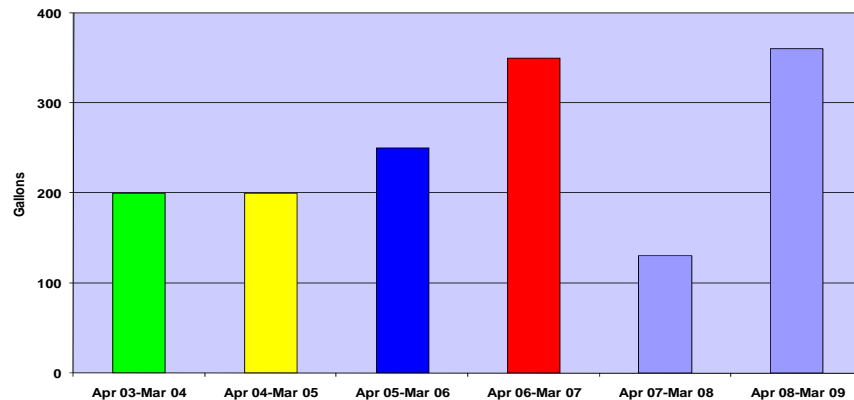
During 08/09 approx 780kgs of Waste Electronic & Electrical Equipment (WEEE) has been collected for recycling.

Waste Continued...

Fluorescent and other Lighting Tubes



Waste Oil



Objective

We do not have a specific objective for waste, however we will continue to segregate, reduce and recycle our waste whenever possible. We will make sure our waste is collected by authorised people and we will obtain copies of their certificates as proof.

Purchasing



What we said we would do...

- We would develop and implement a TT2 Procurement Policy and Procedure.
- Our Financial Controller was going to investigate the market place and propose innovative solutions to save energy and raw materials and to expand the use of recycled materials.

What We Have Achieved...

- Our policy has been written, the procurement questionnaire developed and the procedure documented and implemented. We did not complete the assessment criteria, this work is continuing.
- Our Financial Controller is working with our Maintenance Section to establish a reference list of targeted products indicating the energy consumed to manufacture, use and recycle them at the end of life-cycle. Work is progressing.

Objective

To complete the assessment criteria which feeds into the procurement procedure.

Action

Decide upon the criteria required by TT2 and document this.

Target Date

June 2009

Purchasing (continued)

Case Study.

An important issue for us are the companies who carry out work for us. We need to know that they give as much consideration to the environment as we do.

One of the companies we use is The Mailing House. This is a local company based in Cramlington and they carry out printing and the delivery of TT2 PERMIT Statements (PERMIT is a pre-paid system for driving through the tunnel) for us. They are continually reviewing their working practices and have been able to save resources by reduce the amount of paper they use on our behalf. They no longer produce or send out permit statements showing a nil balance or where there has been no activity on an account.

The Mailing House achieved certification to ISO 14001 in March 2009.

The photograph shows Al Lynn and Michael Basham of the Mailing House, Hanson Pottinger and Paul Myers of TT2.



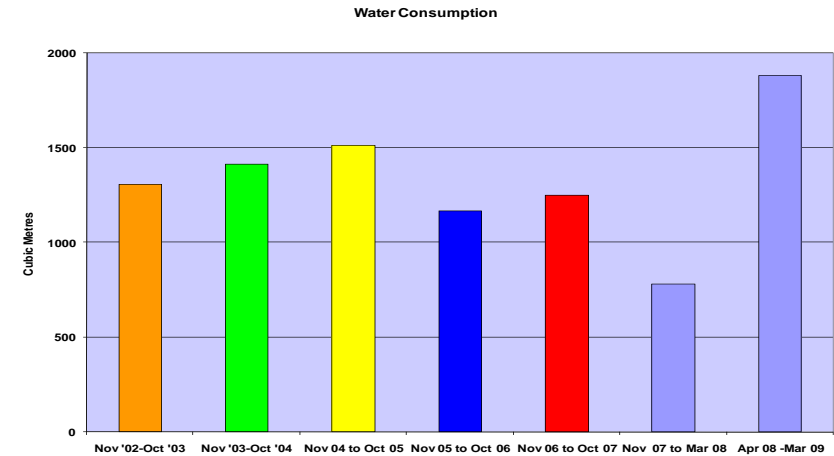
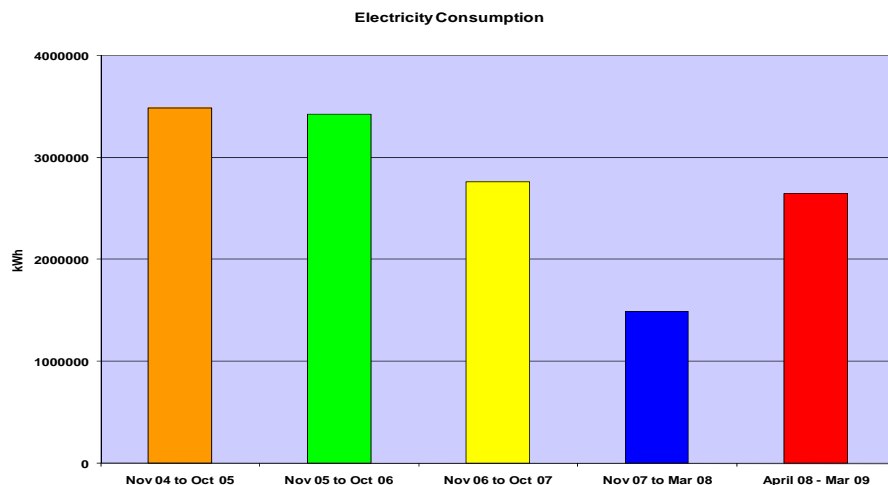
Electricity & Water



We did not have a specific objective for electricity and water, however we continue to monitor and record our consumption. All of our staff are aware of the importance of stitching lights off, reporting dripping taps etc.

In July 2008 we changed our supplier of electricity. Swalec, who are part of the Scottish Energy Group, are now supplying us with electricity. Swalec manage the largest distribution network in the UK and look after over 9 million customer accounts. They provide us with an on-line facility which allows us to record consumption on a half hourly basis. This gives us the opportunity of closely monitoring our consumption.

Performance Indicator



Commentary

Our electricity consumption remains steady.

The rise in water consumption is due to the increased demand during construction, e.g. all water filled barriers are filled from our supply.

The readings shown as Nov 07 to March 08 have been given in order to simplify our reporting and to bring the reporting period into line with other reporting periods in our statement, which is April to March of each year.

Objective:

To minimise electricity consumption.

Action

Establish monthly consumption during 2008 and 2009, beginning in April 2008, and compare, carry out staff awareness sessions, carry out a poster campaign, carry out spot checks/name and shame, carry out an energy rating before our building refurbishment, investigate the market for energy saving devices, communicate with the building design team and after refurbishment re-assess the energy rating.

Target Date

March 2010

Transport



We did not have a specific objective for transport, however we continue to monitor and record fleet and staff mileage.

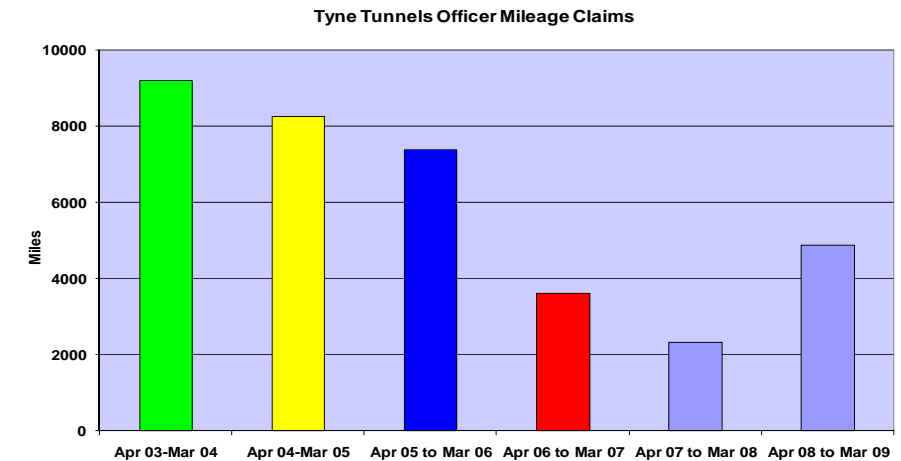
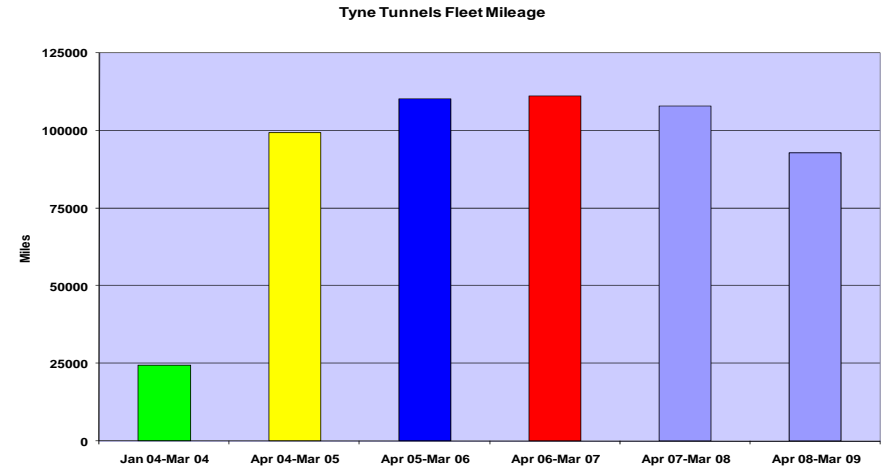


New Rapid Response Vehicles (RRV)

Commentary

Our fleet mileage has reduced from 107,813 miles during 07/08 to 92,743 miles during 08/09, a reduction of 15,070 miles. This is due to convoy operations through the vehicle tunnel being carried out on only two nights per week as opposed to five nights per week. Staff mileage has increased from 2,312 miles during 07/08 to 4,877 miles during 08/09, an increase of 2,565 miles. This is due to additional travel requirements in relation to the construction of the New Tyne Crossing.

Performance Indicator



Objective

To investigate the feasibility of using Total Excellium fuel in our vehicles.

Action

Investigate the claim that this fuel gives more miles per gallon. Carry out a cost comparison. Propose a change of supplier if the claim is proven and the costs are similar.

Target Date

November 2009

Natural Environment & Biodiversity



What We Said We Would Do...

- We would encourage habitation of the green space and wooded areas.

What We Have Achieved...

- We have worked closely with the North Tyneside Metropolitan Borough Council (NTMBC) Ecologist and the Green Wardens. Approximately 30 bird, bee, bat and squirrel boxes have been located on site.
- Bird feeders have been provided and are stocked and replenished.
- A wetland area is to be developed. (see Educational Business partnership Case Study on page 18)

Commentary

During our site inspections we have seen, in addition to the species mentioned in our 2007/08 statement, a vixen and her cubs, a Great Spotted Woodpecker and a European Eagle Owl. The Eagle Owl is believed to have been bred in captivity but escaped and has so far eluded re-capture.



One of the Green Wardens positioning a large bird box



NTMBC staff and Mr. R. Marshall hand over to TT2 staff our first squirrel box. (L to R. G. Hunt (TT2), Mr R. Barnes (NTMBC—Green Warden), T. Jackson (Managing Director TT2), Mrs J. Hunter (NTMBC—Ecologist), Mr R. Marshall (retired who constructs our boxes) and Mr C Dominiczak (NTMBC—Green Warden)

Objective

Further encourage habitation of the green space and wooded areas.

Action

Develop a wet land area and plant this area up. Introduce an animal feed table, erect a hide and monitor the species in our green space/wooded area.

Target Date

March 2010

Education & Awareness



What We Said We Would Do...

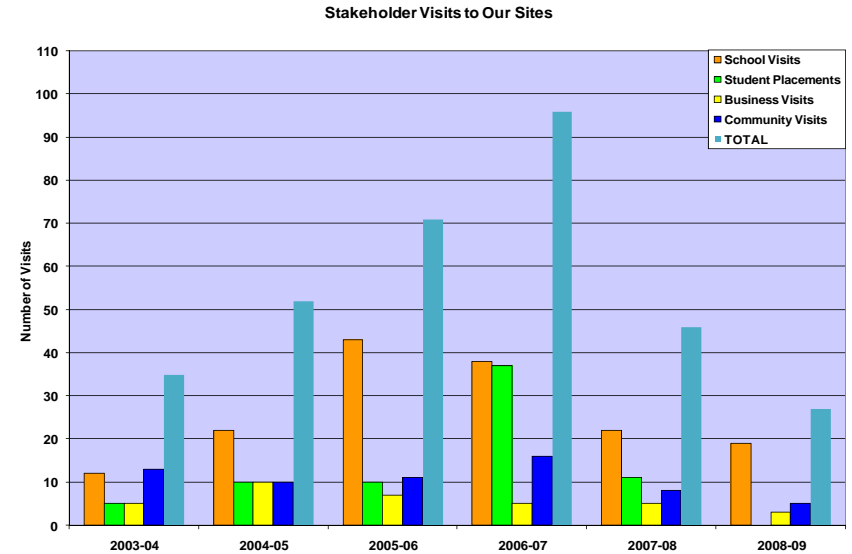
- We would continue to hold stakeholder themed days and increase our Educational Business Partnerships (EBP) within the Tyne & Wear area.

What We Have Achieved...

- The EBP asked us to become involved in setting a challenge for a local school—Churchill Community College. We decided upon an environmental challenge, this was to design a wet land area, an animal feeder and a hide for our green space.

See following page for more information on the Challenge Day.

Performance Indicator



Commentary

Our total number of visits has decreased during 08/09 to 27, a decrease of 20 from 07/08.

We had no student placements during 08/09.

The decrease in visits was due to operational requirements and staff availability.

Objective

To continue to hold stakeholder themed days. Increase Educational Business Partnerships (EBP) within the Tyne & Wear area.

Action

Involve T. Greulich (Media/communications TT2 and New Tyne Crossing)

Monitor and report annually.

Target Date

April 2010

Education & Awareness (continued)

Case Study

A group of year 7 students from Churchill Community College visited us in November 2008 and we set an environmental challenge for them. The challenge was to design a wetland area, an animal feeder and a hide. They visited the location of the planned wet land and were given information as to what was required. On the 19th November 2008 the children set about designing and modelling the wet land, the animal feeder and the hide. TT2 and NTMBC staff were invited to take part in the days activities. A great time was had by all.



Busy modelling the design.

The 3 winning designs will now be developed by Jackie Hunter and her team and the winning groups from Churchill Community College will visit TT2 during 2009 to build and plant the wet land area, assist in building the hide and the animal feeder.

Wetland Area Design



Hide Design



Animal Feeder Design



Air Quality

We did not have a specific objective for Air Quality, however we continue to monitor and record our findings.

Peer Review Document.

This document was approved on the 22.4.09 and has now been published.

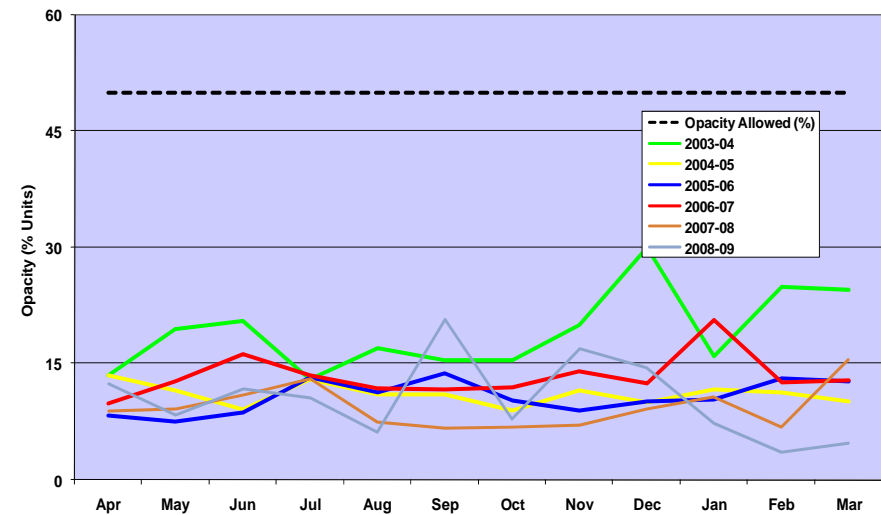


BTS NO Best Practice

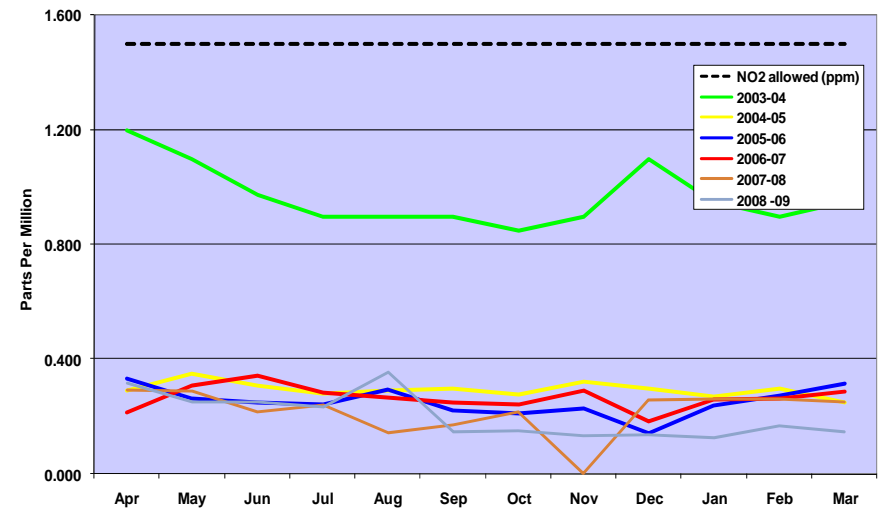
Final Peer Review
Jan 2008

Performance Indicator

Tyne Tunnels Air Quality - Opacity

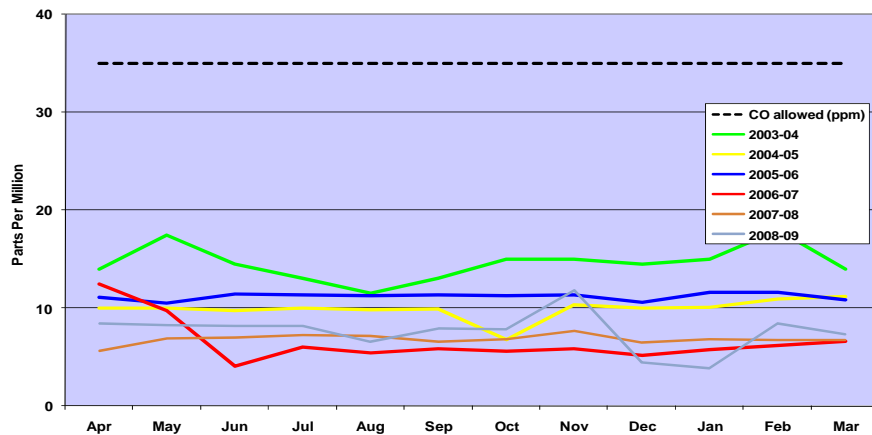


Tyne Tunnels Air Quality - Nitrogen Dioxide (NO2)

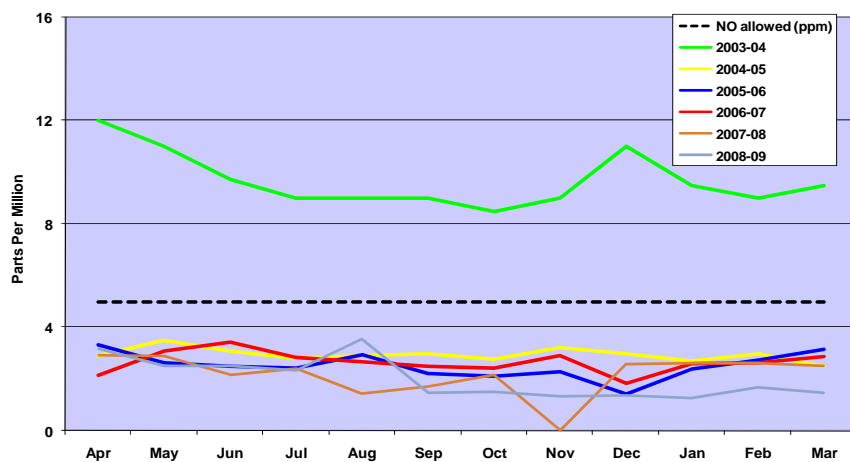


Air Quality

Tyne Tunnels Air Quality - Carbon Monoxide (CO)



Tyne Tunnels Air Quality - Nitrogen Monoxide (NO)



(NB NO permitted level has changed to 5ppm from 10ppm. We still remain well below the permitted level.)

Commentary

During 2008/09 we encountered technical problems with our Vicotec meters (these are used for measuring tunnel air quality) at the end of 2008. We therefore installed chemical Carbon Monoxide meters and replacement visibility meters. The NOX readings are obtained from Chemiluminescent meters, which are located in the south ventilation building. .

Vehicle Tunnel's Performance Against Legal Provisions

We continue to perform well against the legal limits for air quality

Case Study.

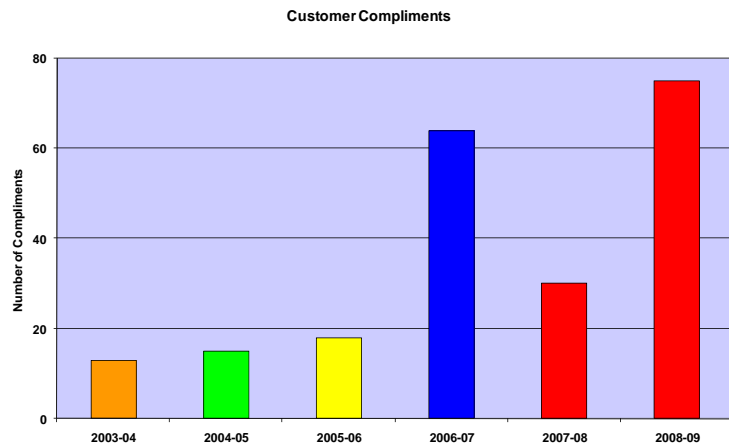
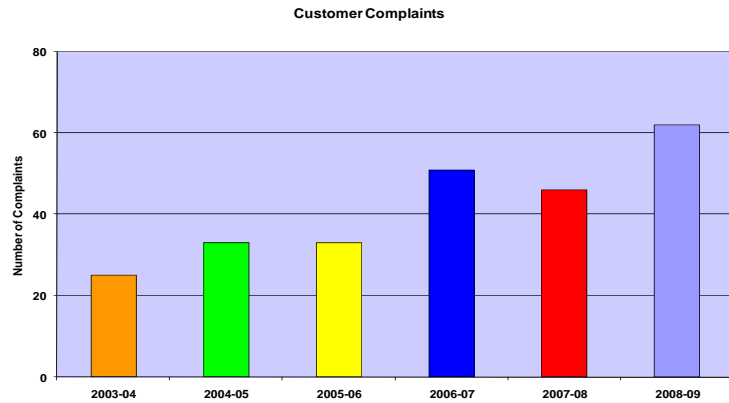
Jeff Shaw our Maintenance Manager had been involved with the development of the Nitrogen Oxide Final Peer Review—Jan 2008 document for the British Tunnelling Society (BTS). This document was approved on the 22.4.08 and has now been published. Since the document was published we have undertaken a review of our NOX COSHH (Control of Substances Hazardous to Health) Assessment.

The Health & Safety Executive removed the limits for NOX, therefore the BTS has produced a Tunnelling Industry Guidance Note. This allows us to work to the compliance levels as stipulated in the guidance note.

Objective:

We do not have a specific objective for Air Quality, however we will continue to monitor, measure and report on the air quality within the vehicle tunnel.

Complaints and Compliments



Commentary

Our compliments for 07/08 were 30, our compliments for 08/09 were 75, an increase of 45.

Our complaints for 07/08 were 47, our complaints for 08/09 were 62, an increase of 15. Only one environmental complaint was received during this reporting period and was in relation to tree clearance waste.

Incidents & Breaches

During the period of April 2008-March 2009 the Tyne Tunnels had no known environmental incidents, breaches or prosecutions reported.



Contact Details

Should you wish to contact any Tyne Tunnels staff with regards to our EMS or any of the issues covered within this environmental statement please do not hesitate.

Address;
TT2 Ltd.
The Tyne Tunnels,
Wallsend,
Tyne & Wear,
NE28 0PD

Tunnels Manager
Mr Peter Hedley
Tel: 0191 262 4451
Fax: 0191 263 1031
Email: tt2limited@tt2.co.uk



Contact Details. (continued)

EMAS Champion

Mr Paul Myers
(HR Manager)

Tel: 0191 262 4451

Fax: 0191 263 1031

Email: p.myers@tt2.co.uk



EMAS Champion

Mr Ron Henderson
(Operations Manager)

Tel: 0191 262 4451

Fax: 0191 263 1031

Email: r.henderson@tt2.co.uk



Contact Details. (continued)

EMAS Champion

Mr Jeff Shaw
(Maintenance Manager)

Tel: 0191 262 4451

Fax: 0191 263 1031

Email: j.shaw@tt2.co.uk



EMAS Champion

Mrs Lynne Walker
(SQE Manager)

Tel: 0191 262 4451

Fax: 0191 263 1031

Email: l.walker@tt2.co.uk



Feedback

- Do you find this environmental statement useful?
- Do you have any suggestion about how TT2 could improve their management of environmental issues?
- We value your feedback as a stakeholder, and any comments or suggestions about how we may improve our environmental performance are welcome.

How do you rate this environmental statement? (please circle)

Very Poor Poor Average Good Very Good

Has the statement provided you with the environmental information you require? (please circle)

Yes No If No, what type of additional information would you like to see in this statement?

Further Comments:

If you wish to receive a reply, please fill in your name and address:

Name: _____

Address: _____

Thank You

PLEASE ADD NAME AND
RETURN ADDRESS