CONSTRAINTS AND OPPORTUNITIES FOR THE WORK OF THE ENVIRONMENTAL MANAGER

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Summary

This article examines the work of the Environmental Manager. To do this it is necessary to understand the many operational constraints imposed on the environmental manager, both internally from within the enterprise, and externally from many different agencies. Some of these ‘constraints’ can also be used as opportunities. External constraints include: compliance with national and international legislation; competitive advantage; and stakeholder pressure. Internal issues include: strategy of enterprise; environmental management systems and auditing; life cycle management; and eco-efficiency. Future trends include: new legislation; pressures for eco-efficiency; globalization; and ethical considerations. These trends indicate the increasingly demanding role of the environmental manager and the need for flexible, high quality, up-to-date education and training to provide the range of knowledge and skills required.
1. Introduction

This article examines the work of the Environmental Manager. To do this it is necessary to understand the many operational constraints imposed on the environmental manager, both internally from within the enterprise, and externally from many different agencies. Some of these ‘constraints’ can also be used as opportunities. Future trends are explored which indicate the increasingly demanding role of the environmental manager and the need for flexible, high quality, up-to-date education and training to provide the range of knowledge and skills required.

2. What is an Environmental Manager?

An environmental manager is an employee of an enterprise with responsibility for controlling the impact of the enterprise on the environment, however, in reality the role and tasks of such a person may differ considerably from one enterprise to another. In this respect two important factors are: the size of the enterprise; and the extent to which the activities of the enterprise impact on the environment.

Larger enterprises often have a central environmental department together with a manager responsible for environmental matters at each operating site. In smaller enterprises the role is often combined with other responsibilities such as health and safety.

Some enterprises, such as those in the chemical industry, undertake activities which can have significant environmental impacts. In such enterprises the role of the environmental manager is important and often high profile. For some enterprises, such as office-based enterprises, the activities may not have such obvious and immediate environmental impacts, and the role of the environmental manager may be considered to be less important.

Whatever the size and scope of the activities of the enterprise, the work of the environmental manager is largely defined by both external and internal constraints. The nature of these constraints will now be examined.

3. Constraints External to the Enterprise

3.1. Compliance

All enterprises are required to demonstrate compliance with international and national environmental legislation. Failure to ensure compliance with the legislation can result in prosecution of the enterprise as a corporate entity and/or prosecution of individual employees or directors of the enterprise deemed to be responsible for the transgression. In some cases a successful prosecution by the relevant enforcement agency can result in one or more of the following: withdrawal of license to operate; heavy fines; imprisonment. At the minimum such an outcome may result in some bad publicity for the enterprise. At the maximum it may result in the enterprise going out of business.

Some examples of successful prosecutions brought by the UK Environment Agency are
given in Appendix 1. Although these offences are of different types, they all resulted from failure of the employees responsible for environmental management to ensure compliance with the current legislation.

### Appendix

<table>
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<tr>
<th>Example 1</th>
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<tr>
<td><strong>£270,000 PROSECUTION OF SARP UK LTD AFTER 2 TOXIC GAS CLOUDS ESCAPED OVER KILLAMARSH (NEAR SHEFFIELD) IN MAY 1998</strong></td>
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<td><strong>Offences included:</strong></td>
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<tr>
<td>“Keeping controlled waste, namely special waste comprising a mixture of acids, in a manner likely to cause pollution of the environment or harm to human health contrary to Sec 33 (1)C and Sec (33) (9) of the Environmental Protection Act 1990”</td>
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<tr>
<td>“I was delighted with the outcome. These were serious offences and the penalties were sufficiently large to gain the attention of the boardroom. I hope this sets a trend for future sentences”</td>
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<td>Ed Gallagher, EA Chief Executive</td>
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<th>Example 2</th>
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<tr>
<td><strong>RHODIA ECO SERVICES FINED £13K +COSTS FOR 2 OFFENCES OF DISCHARGING TOXIC EFFLUENT CONTAINING MERCURY IN THE RIVER ROTHER NEAR CHESTERFIELD IN 1998</strong></td>
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<td><strong>Offences:</strong></td>
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<td>“failure to comply with authorisation to carry out a process using the best available techniques not entailing excessive cost. Contrary to Sections 6, 7, 23 of the Environmental Protection Act 1990”</td>
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<tr>
<td>“did cause poisonous, noxious or polluting matter namely effluent containing mercury to enter controlled waters namely the River Rother. Contrary to Sections 85 (1), 85 (6) of the Water resources Act 1991”</td>
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<th>Example 3</th>
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<tr>
<td><strong>COMPANY DIRECTOR FINED £5K +COSTS FOR ILLEGALLY DUMPING DEMOLITION WASTE NEAR HARROGATE</strong></td>
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<td>ALSO DISQUALIFIED FOR BEING A COMPANY DIRECTOR FOR 2 YEARS</td>
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<th>Example 4</th>
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<tr>
<td><strong>LEIGH ENVIRONMENTAL FINED OVER £100K FOR FALSIFICATION OF LANDFILL DATA SENT TO EA FROM SITES NEAR TELFORD AND WARWICK</strong></td>
</tr>
<tr>
<td>Data for difficult waste (including cyanide, mercury, cadmium, arsenic) and leachate were regularly...</td>
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falsified.

“This incident was extremely serious, especially considering Leigh Environmental Ltd’s poor environmental record in the West Midlands.... This case resulted partially from the company not taking the due diligence required of an organisation which handles dangerous substances.”
EA Area Manager

Appendix 1: Examples of Successful Prosecutions of Enterprises by the UK Environment Agency.

3.2. Competitive Advantage

Although companies are clearly primarily in business in order to produce profits for their owners or shareholders, all enterprises including governmental and non-governmental organizations prefer to operate efficiently and reduce costs to the minimum. This can appear to be a constraint for the environmental manager because the achievement of environmental improvements in the enterprise may require capital investment. Even training of employees in environmental awareness and improved environmental practices can be seen as a cost for the enterprise. Such attitudes may apparently reduce costs in the short-term, but in the longer term may result in unsatisfactory compliance with legislation, poor environmental practices and a loss of competitive advantage. Many enterprises have recognized that relatively simple improvements, for example in energy efficiency and waste minimization, can lead to substantial cost savings with relatively short payback periods. An example is provided in Appendix 2.

**Skippingdale Paper Products Ltd – nappy pads**

**Improvement 1**

- *Old process*: Cutting by high pressure water jets. Water and fibre slurry waste to landfill – 5t/day.
- *Saving*: £20k/yr landfill; £800k/yr material costs.
- *Payback*: 1 year.

**Improvement 2**

- *Changed process*: Reduction in pack volume by 60%.
- *Saving*: £195k/yr transportation costs - 600k km less per year.
- *Payback*: 6 months.

Appendix 2: Examples of Environmental Improvements
There are other competitive advantages that may result from improved environmental performance. These can include:

- Improved materials and energy efficiencies;
- Better product quality;
- Customer satisfaction and loyalty;
- Improved external ‘image’;
- Increased staff commitment;
- Reduced risk exposure;
- Lower insurance premiums;
- Cheaper finance.

Some enterprises have recognized these competitive advantages and have deliberately set out to be identified as ‘environmentally friendly’. In its advertising the Co-operative Bank in the UK stated “We promise to never invest our customers’ money in companies that needlessly pollute”. The Swedish-based chain-store IKEA has also adopted practical ‘green’ policies, for example by eliminating the use of chlorine bleached paper and substituting polypropylene and wood products for PVC products. In such enterprises where the directors are committed to a comprehensive long-term environmental strategy, then environmental improvement becomes integral to all aspects of the operation of the enterprise. In this context the environmental manager is a key employee involved in developing and implementing the strategy.

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Biographical Sketch

Professor David Cawsey has an honors degree in Geology and a doctorate in Civil Engineering. He is a Chartered Geologist and a Fellow of the Geological Society of London. His wide experience includes working for central and local governments, higher education, and industry in engineering geology and subsequently in environmental engineering and management. He is the author of more than 50 publications in these fields. Other professional activities have included leading successful international environmental and training programs, and acting as external examiner and adviser for degree programs and doctorates. He now combines some university teaching with consultancy and professional activities.