

Zero Waste Productions



A Green Screen Guide & Directory For Film Production

We can help make your movie green

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***Incinerating 10,000 tonnes of waste creates 1 job, landfilling it creates 6 jobs,
and recycling it creates 36 jobs¹***

¹ Zero Waste New Zealand Trust: www.zerowaste.co.nz

Front cover photo: Independent Mountain Guides: www.independentmountainguides.co.nz/

1 INTRODUCTION

This Green Screen Guide & Directory has been produced by Queenstown Lakes District Council in conjunction with Film Queenstown to assist film companies operating in the Queenstown Lakes District to reduce, reuse and recycle their waste. This Green Screen Directory will cover the following:

Get It Sorted

About the Queenstown Lakes District Council & why we want to help.

Green Screen tips and ideas

- Art & Construction;
- Catering & Craft Services;
- Production Office & Administration;
- Special Effects; and
- Unit & Location.

Education

- Recycling signs, ideas and templates.

Recycling Systems

- A guide for setting up your recycling system.

Directory of Contacts

- Quick reference list of local resources - find what you need, when you need it.

“Southern New Zealand is home to a vast array of remarkable and spectacular landscapes. As a user group Film Queenstown is reliant on the breathtaking surroundings this District has to offer and holds the protection of this diverse environment principal throughout all its productions.”²

² KJ Jennings, Film Queenstown Manager June 2008

2 GET IT SORTED

Queenstown Lakes District is the fastest growing District in New Zealand. Our 20-year growth forecasts tell us that this is a trend that is likely to continue in the near and distant future. Economic growth and waste arisings are inextricably linked, and with an increased number of residents and tourists attracted to the area the quantity of waste produced in our District is set to rise substantially.

Queenstown Lakes District Council (Council) is a Zero Waste Council committed to developing an integrated waste management system that diverts significant quantities of material from landfill to alternative and more sustainable waste management options.

In order to achieve this vision and to maintain and fulfill community expectations and outcomes into the future the Council has adopted a comprehensive Waste Management Strategy (Strategy). The Strategy outlines the steps the Council is taking to introduce 43 waste minimisation initiatives that will impact upon all waste generated in and transported to the District.

Waste minimisation initiative No 11 in the Council's Strategy states that *'all visiting film companies are to appropriately manage their waste; reducing, re-using and recycling waste wherever possible.'*³

This Green Screen Guide & Directory aims to help you make your production as green and environmentally friendly as possible and provides useful ideas and tips which may be adaptable to any film production.

For further information regarding this Green Screen Guide for Film Production, please contact the Queenstown Lakes District Council Customer Services on (03) 441 0499 or email the Solid Waste Manager at services@qldc.govt.nz.

Did you know?

The Wakatipu Recycling Centre receives an average of 120 tonnes of recyclable material per month from the commercial sector.⁴

That's the equivalent weight of 15 double-decker buses.⁵



³ QLDC Waste Management Strategy 2003: www.qldc.govt.nz

⁴ Information supplied by Smart Environmental; based on tonnage figures from March 2008 – May 2008.

⁵ www.uk.answers.yahoo.com

GREEN SCREEN TIPS & IDEAS

- Art & Construction;
- Catering & Craft Services;
- Production Office & Administration;
- Special Effects; and
- Unit & Location.



Did you know?

The Life of Litter. Decomposition Rate for Trash⁶

Paper	- 2.5 months
Orange Peel	- 6 months
Milk Carton	- 5 years
Cigarette Butt	- 10-12 years
Plastic bag	- 10-20 years
Disposable diaper	- 75 years
Tin can	- 100 years
Beer can	- 200-500 years
Styrofoam	- Never (immortal)

⁶ Zero Waste New Zealand Trust: www.zerowaste.co.nz

3 GREEN SCREEN TIPS AND IDEAS

3.1 ART AND CONSTRUCTION

- Use low toxicity paint and solvents;
- Recycle all props where possible - local schools are willing to take certain items;
- Provide recycling bins for all workshops and offices when possible;
- Avoid using polystyrene and plastic based products;
- Donate timber and greenery to local residents and land owners for reuse;
- Use organic and recyclable materials for set construction wherever possible i.e. wood and cardboard;
- Used engine oil, solvents and paint can be recycled at various drop-off locations (see Directory of Contacts);
- Educate staff about recycling - Use posters, signs, memos, prizes & incentives.



Did you know?

The Frankton Transfer Station receives an average of 314 tonnes of construction and demolition waste per month.⁷

That's the equivalent weight of 39 double-decker buses.⁸

⁷ Information supplied by Otago Southland Waste Services; based on tonnage figures from July 2007 – May 2008.

⁸ www.uk.answers.yahoo.com

3.2 CATERING & CRAFT SERVICES

- Use washable and reusable crockery and cutlery;
- Provide water dispensers for water bottle refills;
- Reusable coffee cups for staff instead of disposable ones;
- Reusable shopping bags instead of plastic bags;
- Separate food scraps and donate to local farmer for stock feed, compost or worm farming;
- Use aluminium tin foil instead of glad wrap as this can be recycled (Glad-wrap goes straight to landfill);
- Use chemical free or non-toxic cleaning products;
- Recycle; ensure the recycling bins are located in accessible and convenient locations for staff and crew;
- Ensure that recycling bins are emptied regularly by staff or crew;
- Assign a staff member to check the recycling containers and ensure that contamination does not occur;
- Educate staff about recycling - use posters, signs, memos, prizes & incentives;
- Reward a champion recycler for best efforts and new ideas.



Photo⁹

Did you know?

Disposable coffee cups cannot be recycled due to the wax lining on the inside of the cup and therefore must be landfilled.¹⁰

A PLA compostable product from Kiwi GreenPak can decompose within 50 days¹¹



Photo¹²

Biodegradable Coffee Cups and Food Packaging Products available from Kiwi GreenPak Ltd;

(See Zero Waste Directory of Contacts)

⁹ Photo by Annie Weston

¹⁰ Information supplied by the Wakatipu Recycling Centre (June 2007).

¹¹ www.kiwigreenpak.co.nz/

¹² www.bcsfoodpak.co.nz

3.3 PRODUCTION OFFICE & ADMINISTRATION

- Recycle all paper, cardboard, plastic, glass & aluminium;
- Recycle printer cartridges;
- Save paper - print double-sided;
- Confidential paper can be collected and recycled;
- Separate food waste and give to local resident for compost;
- Install water dispensers for water bottle refills instead of throwing away
- Choose reusable products; if not use biodegradable;
- Reusable coffee cups for staff instead of disposable ones;
- Use biodegradable coffee cups & reusable plates & cutlery in lunchroom
- Reduce plastic bags; buy reusable shopping bags for runners and support crew;
- DDS Ltd in Dunedin recycle a range of office & stationary products (see Directory of Contacts under **CONFIDENTIAL PAPER DESTRUCTION**);
- Ensure the recycling bins are located in accessible and convenient locations for staff and crew;
- Limit refuse bins to one for every three desks; provide recycling bins for every desk;
- Ensure that the recycling bins are emptied regularly by the cleaners or staff;
- Assign a staff member to monitor the recycling and ensure that contamination does not occur;
- Reward a champion office recycler for best efforts and new ideas.



Photo¹³

Did you know?

It takes over 1000 years for a printer cartridge to decompose in a landfill.¹⁴

75% percent of a tree harvested for paper does not end up as paper product¹⁵

¹³ Photo by: Independent Mountain Guides www.independantmountianguides.co.nz/

¹⁴ www.recycling-revolution.com

¹⁵ www.metro-region.org

3.4 SPECIAL EFFECTS (SPFX)

- Recycle used paint and solvents;
- Recycle used car batteries & engine oil;
- Recycle all paper, cardboard, plastic, glass & aluminium;
- Donate scrap timber to local residents;
- Have scrap metal collected and recycled;
- Ensure all hazardous waste is disposed of safely and appropriately;
- Car tyres can be re-used (See Directory of Contacts under **CAR PARTS**);
- In Queenstown used vehicles can be collected by a private contractor and in Wanaka they can be taken to the transfer station for dismantling and recycling (see Directory of Contacts under **VEHICLES**);
- Reusable coffee cups for staff instead of disposable ones;
- Reduce plastic bags - buy reusable shopping bags for runners and support crew;
- Ensure recycling bins are located in accessible and convenient locations for staff and crew;
- Provide extra signage next to recycling bins, in smoko-rooms and in offices so staff know what to recycle and where to put it;
- Ensure that the recycling bins are emptied regularly by the cleaners or staff;
- Assign a staff member to check the recycling and ensure that contamination does not occur;
- Reward a champion SPFX recycler for best efforts and new ideas.



Did you know?

It takes 7 gallons of crude oil to produce one car tyre¹⁶

Recycling one pound of steel saves enough energy to power a 60-watt light bulb more than 26 hours¹⁷

¹⁶ www.metro-region.org

¹⁷ www.metro-region.org

3.5 UNIT & LOCATION

- Recycle all paper, cardboard, plastic, glass & aluminium;
- Print double-sided;
- Recycle printer cartridges;
- Recycle confidential paper;
- Refill water bottles;
- Reusable coffee cups for staff instead of disposable ones;
- Reduce plastic bags; buy reusable green shopping bags for all runners and support crew;



Photo¹⁸

- Ensure recycling bins are located in accessible and convenient locations for staff and crew;
- Print memo's on daily call sheets for all location crew informing them of the recycling facilities available on set;
- Provide extra signage next to recycling bins and in smoko areas so crew know what to recycle and where to put it;
- Ensure that the recycling bins are emptied regularly by the cleaners or staff;
- Assign a staff member to monitor the recycling and ensure that contamination does not occur;
- Reward a champion on-set recycler for best efforts and new ideas.

Did you know?

The charge for recycling at the Wakatipu Recycling Centre is \$40.00 per tonne;

The charge for residual waste at the Frankton Transfer Station is \$130.00 per tonne.¹⁹

¹⁸ Independent Mountain Guides www.independantmountianguides.co.nz/

¹⁹ Information supplied by Otago Southland Waste Services and Streetsmart Ltd. Prices listed as of 1st April 2008.

4 EDUCATION SYSTEMS

Education is a crucial part of your Zero Waste Management system. The more people know about it, the more they will use it.

People need to know what they can recycle and where to put it!

WASTE TYPES

In order to gauge what you will need for your waste management system, it is important to first consider what types of waste will be produced.

Waste fits into the following categories;

1. **RECYCLABLE WASTE;**
2. **COMPOSTABLE WASTE; and**
3. **RESIDUAL WASTE (sent to landfill)**

The amount of residual waste produced should always be minimised as much as possible



Photo²⁰

COST

Disposal costs for residual waste in the District are significantly higher than recycling and this is set to continue as the Council has adopted a polluter-pays principle where those that produce waste pay a premium to use the District's landfill. This will encourage the community to do the right thing and maximise the diversion of waste from landfill by undertaking recycling and composting more cheaply.

In order to change behaviour, sending waste to landfill is up to 3 times more expensive than recycling.²¹

The more waste you recycle; the more money you save!

Use this Zero Waste Toolkit to ensure that your waste management system is efficient and effective. Implement as many reduce, reuse, recycle initiatives as possible to help our unique environment and reduce your bottom line. Increased awareness will ultimately lead to better practice and cost effectiveness.

CASE STUDY: *X-Men Origins - Wolverine*, WOZ Productions 2007/8:

An estimated **670 tonnes** of waste was produced during the filming of *Wolverine* in the Queenstown Lakes District.

If this was **landfilled** it would cost: \$87,000*

If this was **recycled** it would cost: \$27,000* **That's a saving of \$60,000.**

And if it was **reused** it would cost: Nil

N.B. Figures based on drop off charges in the Wakatipu only

²⁰ www.qldc.govt.nz

²¹ Prices valid as of 1st April 2008: Otago Southland Waste Services and Smart Environmental Ltd.

LET PEOPLE KNOW

Tell staff, cast and crew about the Green Screen Initiative and the recycling facilities available throughout the production. There are various education methods that can be implemented and you may wish to use more than one.

Some ideas include:

- **Signs located on recycling stations;**
- **Posters in staff rooms & smoko-areas;**
- **Regular memo's sent to staff;**
- **Recycling info printed on daily call sheets;**
- **Staff incentives; prizes for champion recycler;**
- **Feedback; tell them of their achievements; and**
- **Organise staff tours of the local recycling centres.**

DEFINE YOUR SYSTEM

Your recycling system can be located in various locations. Whether it's in an office, workshop or on set, you can make it efficient and easy to use.

Container type, size, quantity and placement are all important factors when designing a successful waste management system.

Some key issues to consider include:

- **Number of recycling, composting & residual waste containers;**
- **Where these containers are placed;**
- **Are they labelled clearly;**
- **Who are your waste contractors;**
- **How often the containers are serviced; and**
- **How will you quantify your waste and calculate your diversion target.**



Photo²²

²² www.qldc.govt.nz

MOTIVATE

Motivation is key to achieving a high diversion rate. Provide incentives for staff to get them recycling. As part of your education programme, incorporate some key indicators to encourage staff and crew and get them thinking about waste minimisation.

Some ideas include:

- Facts and figures about waste production during filming;
- Statistics about waste minimisation;
- Costs and savings;
- Feedback on their achievements

RECYCLING CHAMPION

To ensure that your recycling and refuse is managed efficiently, a recycling champion for each department is recommended. By assigning a staff or crew member to this role, you can achieve the most out of your recycling system and ensure that:

- They provide one point of contact;
- Containers are organised and placed correctly;
- Signage and information is provided in the right places;
- Contamination levels are kept to a minimum;
- Collections occur at regular intervals;
- Waste minimisation is achieved to the maximum;
- You save money!

CASE STUDY: *X-Men Origins - Wolverine*, WOZ Productions 2007/8:

An outstanding **waste diversion rate of 94%** was achieved across production during the making of *Wolverine* in the Queenstown Lakes District.

How did they do it?

- ✓ Recycling systems implemented in production offices, workshops and on set;
- ✓ Recycling information printed on daily call sheets;
- ✓ Food waste diverted to local farmer for stock feed;
- ✓ Confidential documents & printer cartridges recycled;
- ✓ Water dispensers installed to refill water bottles and reduce waste;
- ✓ Reusable plates and cutlery used on set by Catering; and
- ✓ SPFX and construction materials recycled or reused.

SIGNAGE

Clear signage for your refuse and recycling bins is essential for an efficient and successful waste management system. This will help to manage contamination levels and educate staff.

You may wish to make your own signs for the recycling containers in the office or in communal staff areas.

It is vitally important that your staff and crew know what they can and what they cannot put in the recycling containers provided.

Below are a few examples of signage that are available to download from the Recycling Organisers of New Zealand website²³:

Check with your recycling service provider to see how they would like the materials separated.



Signs are available for Mixed Recyclables; including plastics, glass, aluminium & steel and paper.

Other materials will need to be separated, such as food waste, cardboard & residual waste.



A full directory of the above recycling symbols can be found on the Recycling Operators of New Zealand (RONZ) website: www.ronz.org.nz under 'Recycling Symbols'²⁴.

²³ www.ronz.co.nz/

²⁴ www.ronz.co.nz/

WHAT GOES IN THE BINS?

Make sure people know what they can and cannot put in the bins.

Here in the Queenstown Lakes District, the following materials can go into your recycling bins;

- ✓ Glass
- ✓ Aluminium & Steel Cans
- ✓ All Paper & Cardboard
- ✓ Plastics 1-7

A full recycling checklist is provided overleaf.

WHAT ARE PLASTICS 1-7?

Plastics are given numbered codes between 1 to 7 in order to define what type of plastic they are.

To recycle plastic, look for the recycling triangle on the product; it is usually found on the bottom of bottles & containers:

- ✓ If it has a number 1 to 7 you CAN recycle it!
- × No symbol – your CANNOT recycle it!



Use the recycling checklist overleaf to make sure what types of plastics can be recycled.



OTHER MATERIALS

You can recycle other materials in the District, including:

- ✓ Electronics
- ✓ Furniture
- ✓ Car Batteries
- ✓ Paint and solvents
- ✓ Printer cartridges
- ✓ Clothing
- ✓ Household goods
- ✓ Scrap metal
- ✓ Vehicles

Check out the **Zero Waste Directory of Contacts** to find out where you take them!

RECYCLING CHECKLIST

Do's and don'ts for your recycling containers.

YES	NO
<ul style="list-style-type: none">✓ All Paper✓ All Cardboard (flattened)✓ Plastics 1-7 (with recycling logo only)<ul style="list-style-type: none">- Bottles- Tubs and pots✓ Aluminium & Steel<ul style="list-style-type: none">- Clean aluminium foil (Queenstown only)- Food tins and drink cans✓ Glass<ul style="list-style-type: none">- Bottles and jars (clean)	<ul style="list-style-type: none">× Plastic Bags× Tetra Packs× Disposable Coffee Cups× Foam Takeaway Containers× Chip & Lolly Packets× Laminated Paper× Glad Wrap× Organic & Food Waste× Rubber× Broken Glass, Pyrex or Window Glass

Your waste and recycling service provider will be able to provide further information.

A full list of contacts is available in the **Directory of Contacts** in the back of this **Zero Waste Toolkit**.

CONTAMINATION

Contamination refers to any non-recyclable material that occurs in your recycling containers, e.g. food, plastic bags or ceramics.

Ensure that you keep contamination levels as low as possible. If bottles and jars are not cleaned, or non-recyclables are present in your bins, you will accumulate high levels of contamination and contractors may charge extra fees to service your bins.

Make sure there is no food contamination and the right things go into the right bins.

HELP

Should you require any further information regarding recycling and waste management services in the District, please contact the Queenstown Lakes District Council Customer Services on (03) 441 0499 or email services@qldc.govt.nz.

For more information please contact:

Queenstown Lakes District Council
Private Bag 50072
Queenstown

Tel: +64 3 441 0499

Fax: +64 3 450 2223

Email: services@qldc.govt.nz

Website: www.qldc.govt.nz



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