

# Air Quality Management Procedure

#### 1. Purpose

The purpose of this Procedure is to provide a summary of tasks, responsibilities, tools and templates applicable to renewals programs delivered by the Project Delivery Group relevant to air quality management. The Procedure includes:

- Dust Suppression
- Light Management

The scope also includes the assignment of responsibilities to each of the procedure steps. This document should be read in conjunction with the following:

- Incident Management Reporting and Investigation Procedure
- PDG Environmental Management Plan

## 2. Scope

Planning	Delivery	□ Handover
🗆 Program Management	Procurement	🗆 Community & Stakeholder
□ Safety	🛛 Environment	🗆 Quality

This Procedure steps through the processes for air quality management on projects and programs delivered by TasWater.

## 3. Definitions

This Procedure should be read in conjunction with the Project Delivery Group Acronyms and Glossary document.

This is not an exhaustive list. It provides step-by-step guidance. Please refer to the relevant management plan or tools for detailed information.

#### 4. Dust Suppression

The purpose of this procedure is to ensure that dust generation is planned for during preconstruction planning and site establishment and minimised during the construction process.

PR	OCEDURE	RESPONSIBILITY			
PR	PRE-CONSTRUCTION PLANNING AND SETUP				
•	<ul> <li>Identify and record potential sources of dust generation as part of the project's HSE Risk Register and Site Environment Plan development.</li> <li>Where required, equip site entries and exits with suitable mitigation to minimise soil transport to and from the site in accordance with the Sediment and Erosion Control Procedure. Suitable mitigation may include:</li> <li>Locate stockpiles where they are protected from the wind, where practicable</li> <li>Construct wind breaks or wind screens such as wind fences around the site, where practicable</li> <li>Consider the seasonality of wind in an area when planning construction</li> <li>Restrict land clearing or earthmoving activities during periods of high wind.</li> </ul>	Contractor / TasWater Environmental Advisor			



PROCEDURE		RESPONSIBILITY
Wind Fence	Rumble Grid	
MINIMISNG DUST DURING CONSTRUCTION	1	
<ul> <li>areas such as disturbed areas, haul road</li> <li>Polymer based additives are effective for water alone. Chemical dust suppressant generation and increase soil stability with</li> <li>TasWater Environmental Advisor accept suppressant must be obtained prior to the review of the Safety Data Sheet (SDS) for</li> <li>Australian based suppliers of chemical of RST Mining and Civil Solutions (https://www.vitaling</li> <li>Vital Industries (https://www.vitaling</li> <li>Common chemical dust suppressants us</li> <li>Total Ground Control</li> <li>RT5 Superskin</li> <li>Vital Bon-Matt Stonewall</li> <li>The effectiveness of dust controls shoul winds (40-50km/hr) and dust generating dust generation cannot be achieved.</li> </ul>	or reducing dust generation compared to ts can be used on-site to minimise dust nen necessary. tance of the proposed chemical dust using the product on site, including a or the product. dust suppressants include, for example: ://www.rstsolutions.com.au) dustries.com.au) sed include:	Contractor
Water truck	Chemical suppressant	



PROCEDURE		RESPONSIBILIT
Applying RT5 Superskin to stockpiles for dust and erosion control	Guardian Road Binder Road Stabiliser & Dust Suppressant for Haul & LV Roads	
AND STABILISATION DURING AND POST CO		<u> </u>
<ul> <li>possible to minimise the generation of d</li> <li>Revegetation with native species</li> <li>Temporary, quick germinating grasse stabilise soil until slower growing plan</li> <li>Hydroseeding</li> <li>Mulch (straw or other material) can b growth. Mulch spread to a depth of 7 and controls weed growth. It may be wind areas</li> <li>Biodegradable erosion control mats a</li> <li>Apply gravel, landscaping rock or sem planting, mulching, or paving is impra</li> </ul>	posed soils should be stabilised as soon as dust using one of the following techniques: as such as rye and oats can be used to nts can be established be used to protect soil and support plant 75–100mm minimises soil and water loss less suitable on steep sites and in high are useful when revegetating steep slopes ni-permeable paving to areas where actical. In sediment control. For example, diversion ent can be used with rubble in the base to	Contractor
Any public complaints received regardin	g dust generation from a site must be	
	al Advisor, recorded as an environmental Management - Reporting and	All

## 5. Light Management

The purpose of this procedure is to ensure light pollution generated by works is minimised. Best Practice lighting design minimises unnecessary artificial light that could be harmful to wildlife or disturb sensitive receivers, result in energy waste, loss of the night sky and adverse impacts to human health.

Light pollution takes several forms, including:

- Glare undue brightness of a light source
- Over-illumination lighting areas at levels beyond those at which human vision is able to differentiate
- Light clutter- excessive grouping of light sources
- Light trespass- unwanted direct lighting of an area



• Skyglow- the increased night sky brightness that is produced by upwardly emitted and reflected electric light being scattered by water, dust and gas molecules in the atmosphere.

PROCEDURE	RESPONSIBILITY
MINIMISING LIGHT POLLUTION	
<ul> <li>Simple management principles can be used to reduce light pollution, including:         <ul> <li>Use the lowest intensity lighting appropriate for the task. Starting from a base of no lights, use only the minimum number and intensity of lights needed to provide safe and secure illumination for the area at the time required to meet the lighting objectives.</li> <li>Use adaptive light controls to manage light timing, intensity and colour to minimise unnecessary light output and energy consumption.</li> <li>Turn off lights when not in use or required.</li> <li>Light only the object or area intended – keep lights close to the ground, directed and shielded to avoid light spill. Existing lights can be modified by installing a shield.</li> <li>Use non-reflective, dark-coloured surfaces where possible.</li> </ul> </li> </ul>	Contractor
<ul> <li>Ose non-reflective, dark-coloured surfaces where possible.</li> <li>Mount lighting fixtures as low as possible.</li> <li>Direct light to the task. Light focusing reflectors can assist to direct light to where it is required.</li> <li>Install screening such as walls, vegetation barriers and other structures to shield sensitive areas against light.</li> <li>Limit increase in lighting, if installing additional lighting, consideration should be given to decreasing the lux in the existing over lighted areas.</li> </ul>	
Lighting should be directed to ensure that only the intended area is lit	
INCIDENT REPORTING	
<ul> <li>Any public complaints received regarding light generation from a site must be reported to the TasWater Environmental Advisor, recorded as an environmental incident in accordance with the Incident Management - Reporting and Investigation Procedure and entered to IRIS for action tracking and closeout.</li> </ul>	All

# 6. References

This procedure is supported by implementation of the following Procedures, Tools and Knowledge:

- Incident Management Reporting and Investigation Procedure
- PDG Environmental Management Plan
- PDG Glossary and Acronyms
- Sediment and Erosion Control Procedure.